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 07/22/2013
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ORDER NO. 0003

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ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE NO 3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER CONTRACT NO. EP-C-12-054 07/22/2013

ORDER NO. 0003

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PERFORMANCE WORK STATEMENT TSAWP Multiple-Award Contracts TASK ORDER EP-12-C-054 0003

Drinking Water GeoPlatform Application (DWGA)

I. Background

The Office of Ground Water and Drinking Water (OGWDW) is participating in the GeoPlatform work to support expanded geospatial activities, applications, and data for use throughout EPA. The GeoPlatform shall support the ability to conduct relevant geospatial analysis using common data, tools and methods. On May 15, 2012 the Deputy Administrator announced the availability of the EPA GeoPlatform, and stressed that it is EPA policy to ensure that geographic data and tools in the future be built on the GeoPlatform.

OGWDW conducted a pilot project in 2012-2013 to convert a number of the major geospatial functions of the Drinking Water Mapping Application (DWMA) to the Agency GeoPlatform. The DWMA is a GIS application specifically developed for OGWDW in 2003 to meet the needs of GIS analysis for drinking water, source water and underground injection control (UIC) program areas. There are four current functions in the Drinking Water GeoPlatform pilot (DWGP) that were used to test the viability of the conversion. They are the following:

- 1. Public water supply density maps of surface water and groundwater sources of drinking water (by State and HUC12) from the EPA Safe Drinking Water Information System (SDWIS). States and HUC12s are categorized according to the number of surface or groundwater sources in this function. See view below.
- 2. Pollution risks to drinking water supplies in source protection areas.
- 3. Identification of wastewater facilities upstream of drinking water intakes, and
- 4. Public water supplies with SDWIS violations and the related pollution risks in source protection areas.

This task order shall complete the conversion of the existing DWMA geospatial functions, and augment and enhance the design of the geospatial functions, queries and analytical capabilities within the GeoPlatform server environment. The DWGP four functions have been tested successfully and OGWDW feels that the current GIS tool should go to production. The prototype and production mapping tool in the GeoPlatform will be called the Drinking Water GeoPlatform Application (DWGA).

The Office of Environmental Information (OEI) conducted user needs assessments across the agency during 2011 and 2012. OGWDW with OEI conducted a user needs assessment in the fall of 2011 to determine the geospatial (GIS) user needs within the drinking water office. Drinking water data was the top most requested dataset for inclusion into the GeoPlatform from these agency interviews.

II. Tasks

Task 1: Core Support and Maintenance

- 1.1 Prior to the beginning of work on this task, the TOPO shall schedule a kick off meeting with the contractor to discuss the tasks within this task order, the goals of the task order, any questions or concerns regarding the existing QAPP, and a review of the schedule of milestones and expectations.
- 1.2 At the kick off meeting at the beginning of the tasks, the agenda shall include an overview of the existing QAPP, and address any concerns from EPA's QAO or from the contractor. Issues raised will be acknowledged by EPA's QAO, and the contractor will be allowed to incur billable costs to address the issues or EPA will dismiss the concern. If the issue needs to be addressed, an addendum to the existing QAPP will be written.
- 1.3 EPA has determined that an existing QAPP will be used for the performance of this task order. See Section III for additional information.
- 1.4 The contractor shall develop, update and/or revise, as directed via written technical direction by the TOPO, the contractor and EPA/RTP security plan based on any new sensitive drinking water security plans or policies, and the classification of sensitive data to conform to the Office of Water (OW), Watershed Assessment's Tracking and Environmental ResultS (WATERS) database environment, EPA Envirofacts, EPA Office of Ground Water and Drinking Water (OGWDW), and Office of Environmental Information (OEI) geospatial data policy as provided by the TOPO. Copies of the security plan shall be provided to the TOPO, OGWDW Security Officer and the WATERS team leader as necessary. Upon direction from the TOPO, the contractor shall coordinate with entities in OEI and/or the Office of Water (OW) to consider an enhanced approach to handle the needed "security" for the DWGA use of the new EPA "portal" technology, Oracle Web Access Management "single sign-on" capabilities and electronic secure data access forms within OGWDW.
- 1.5 The contractor shall monitor the URL of the DWGA on the NCC/RTP Web site and notify the NCC staff and the TOPO if the DWGA site is inaccessible by users. The contractor shall also monitor and maintain the Web access for users of the contractor DWGA Web site during normal business hours. Any user or the EPA TOPO may notify the contractor that either Web site is not available.
- 1.6 The contractor shall coordinate with EPA NCC/RTP support staff in maintaining and updating the DWGA, and its use of the reach address database (RAD) as applicable. Updates to the DWGA are needed because changes occur regularly in the ArcGIS application software, GIS platforms, server locations, Oracle database facility, and the WATERS version control structure.
- 1.7 The contractor shall coordinate with EPA NCC/RTP support staff the conversion/migration of the Drinking Water GeoPlatform pilot/prototype to the production environment under the GeoPlatform ArcGIS Server environment. The contractor will maintain the DWMA until it is expired at the end of the conversion process from the current DWMA ArcIMSTM platform. No updates to the DWMA are needed because of this conversion that are to begin under this task order and continue through enhancements and augmented functionality during option periods.
- 1.8 The contractor shall monitor the deployment of the DWGA to the NCC/RTP production environment on the WATERS instance, test and confirm that all database information is transferred correctly to the new servers, and support the conversion to new RTP software and releases during the performance period. The contractor shall

host a development server on the contractor website that follows all security requirements, and provides a location to test new application uses, and provide a backup to the DWGA application located at NCC/RTP. Support also shall cover needed non-trivial migrations or other support work on the deployed DWGA related to new versions of Esri or ORACLE middleware or other major changes implemented through OEI (in the IGD and Envirofacts systems) or in the OW WATERS system.

A DWMA development site shall no longer be needed under this task order.

Other OW/OEI investment priorities that are set through the OW Information Steering Committee (ISC) or the Geospatial Information Officer (GIO) shall require the contractor to provide technical assistance, materials, and support for any office-wide (OW) investment priorities related to the DWGA that involve the OEI GeoPlatform or Environmental Analyst work.

- 1.9 The contractor shall continue to update and augment the information including presentations, conference papers, and products on a contractor status review site, and display general information pertaining to the DWGA project effort. No information to be included at the site shall be considered sensitive information or data.
- 1.10 The contractor shall receive comments from individual EPA users having access to the DWGA, and shall track and report these suggestions and comments to the TOPO for action as necessary.
- 1.11 The contractor shall monitor and implement procedures as needed to track, modify and issue UserID and password credentials for DWGA users based on the OGWDW Drinking Water Security Policy.

Task 2: Basic Data Use

2.1 The contractor shall support existing data sets in DWGA, and monitor the application to assure that the data is used efficiently in the RTP production environment. Maintaining the current datasets shall allow the DWGA application to be accessed for continuing projects and analyses.

- 2.2 The contractor shall update all major GIS layers that are included in Attachment 1: Data Updates Required to Enhance the GIS Capabilities of the DWGP. Priority coverages and data for these updates are the SDWIS/Fed drinking water data and the layers based on this data (e.g. Source Protection Areas (SPAs); HUC12 layers used in MyWATERS Mapper, etc.). The version of SDWIS/Fed used for all updates shall be the latest complete quarter or its derivative as determined by EPA. The following datasets and data layers shall be updated.
 - 2.2.1 A SDWIS geospatial dataset including all source facilities georeferenced to the most recent NHDPlus¹.

¹ NHDPlus is an integrated suite of application-ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD), the National Elevation dataset (NED), and the Watershed Boundary Dataset

- 2.2.2 Reach code indexing for all SDWIS/Fed source facilities (surface water only).
- 2.2.3 Updating and re-calculating the source protection areas (SPAs) based on the existing and any new source facilities that are not included in the current SPA data layer (3rd Quarter 2010). The contractor shall use the NHDPlus (latest acceptable version) coverages to refine the SPAs as needed
- 2.2.4 Updating the drinking water density maps using the HUC12 watersheds based on NHDPlus (latest accepted version), preparing them for use in various formats or applications (e.g. MyWATERS Mapper, downloadable data sets, web services, etc.) and making them available for public distribution as determined by EPA.
- 2.2.5 Update all metadata connected to the data updates in subtasks 2.2.1 through 2.2.4.
- 2.2.6 Other data sets contained in the DWGP to be considered for update or refresh as funding allows are the following: (version date in parentheses) 2.2.6.1 NPDES (Summer 2007)
 - 2.2.6.2 CSO (August 2004)
 - 2.2.6.3 CERCLA (July 2007)
 - 2.2.6.4 RCRA (July 2007)
 - 2.2.6.5 UIC ((1990's)
 - 2.2.6.6 UST (HIFLD HSIP Gold 2007 dataset of gas stations²)
 - 2.2.6.7 Dry Cleaners (ESRI ArcGIS 9.3 Business Analyst January 2008)
 - 2.2.6.8 AFO (HSIP 2007)
 - 2.2.6.9 SSA (January 2009)
 - 2.2.7 Karst (1984)
 - 2.2.7.1 DOD (December 2005)
 - 2.2.7.2 Tribal (3rd Quarter 2006)
 - 2.2.7.3 Ground Water Regions (1984)
 - 2.2.7.4 Principal Aquifers ((October 2003)
 - 2.2.7.5 Surficial Geology (1979)
 - 2.2.7.6 FEMA Q3 flood plain maps (2003?)
 - 2.2.7.7 NOAA Coastal Counties (Date not noted)
- 2.3 The contractor shall collect, evaluate and develop new datasets to be used to support

(WBD). NHDPlus Version 1 NHDPlusV1) was released in 2006. NHDPlus Version 2 (NHDPlusV2) began its public debut in June 2012.

² HIFLD – Homeland Infrastructure Foundation-Level Database (HIFLD) Working Group is a coalition of federal, state, and local government organizations, and supporting private industry partners who are involved with geospatial issues related to Homeland Defense, Homeland Security, civil support or emergency preparedness and response. The HIFLD website is found at https://www.hifldwg.org. HIFLD produces the Homeland Security Infrastructure Program (HSIP) dataset called the HSIP Gold dataset. The HSIP Gold 2012 dataset contains 5 DVDs: DVD1: Infrastructure Data; DVD 2: Infrastructure Data(Cont.), National Flood, Hazard Layer; DVD 3: LandScanTM, LandScan USATM; DVD 4: Navteq®, Road Networks, Points of Interest; DVD 5: Navteq®, Geocoding Locators (ArcGIS 9.3 & ArcGIS 10.0)

drinking water, source water and underground injection program analyses. The contractor shall use its expertise to develop those datasets that are required, used or needed to support analyses under the GeoPlatform, the SDWIS/Fed Data Warehouse (SFDW), SDWIS/Fed Reporting Services (SFRS), Nutrient Reduction Framework, NPDAT, MyWATERS Mapper, Water Data Project, environmental justice projects, and other agency initiatives.

Task 3: DWGA Enhancements and Design

3.1 The contractor also shall complete the conversion/migration of the remaining queries and GIS functionality of the current OGWDW Drinking Water Mapping Application or DWMA Version 3.0 as referenced above in the Background section to the newer ArcGISTM for Server platform for use in the EPA GeoPlatform. The contractor shall perform all necessary steps to convert the DWMA application to the EPA GeoPlatform. The web site for the EPA GeoPlatform can be found at: http://intranet.epa.gov/gis/geoplatform.html. The conversion analysis conducted in 2012³ and the completed in 2013 provided the options for the conversion of the DWMA functionality to the DWGP (attached). EPA has determined that the following option shall be used for the conversion.

Migrate all remaining DWMA functions to either the GeoPlatform tools, similar to how the HUC12 query currently is in the prototype or onto the GeoPlatform Server as a separate tool as an expansion of the current stand-alone DWGA prototype which contains the wastewater, risk and violation queries. The contractor shall be given access to the EPA GeoPlatform and the private group where the DWGA resides by the EPA TOPO.

The differentiation between "GeoPlatform tools" and "the GeoPlatform Server as a separate tool" in paragraph (1) above is as follows:

- a. GeoPlatform tools are being defined as map services that are available to the larger EPA GeoPlatform community
- b. A separate tool on the GeoPlatform Server is being defined as new functions/queries being added to the existing stand-alone separate DWGA prototype tool (the tool containing sensitive data in the private group).
- 3.2 The contractor shall outline technical options to incorporate GIS functions and data used in the DWGA in the EPA GeoPlatform to the SDWIS/FED project including incorporating DWGA functions and queries into the design of the SDWIS/FED Standard Reporting Services [SFRS; APEX reports⁴] and Data Warehouse (SFDW). The contractor shall be kept informed by the TOPO in the OGWDW effort to move SDWIS/Fed to a new data system. The contractor shall

³ Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, Pages 25.

⁴ Oracle Application Express (Oracle APEX) is a declarative, rapid web application development tool for the Oracle database that is being used by OGWDW to design and generate reporting services within the SDWIS/FED Data Warehouse.

be required to analyze the SFDW and SFRS and recommend options on the best methods to embed or integrate GIS functionality into or with the SFDW and SFRS. The DWGA tool shall be designed as an integral part of the GIS capabilities for using SDWIS data from the SFDW and SFRS, and displaying data reports and physical maps (map views) directly from the APEX reports using the GeoPlatform server environment.

- 3.3 The contractor shall design and develop new geospatial functions and queries determined by EPA that are directly related to the outlined tasks in 3.1 and 3.2 above. All work shall take advantage of the NHDPlus velocity and flow variables available for the catchments that are elevation-derived sets of polygons to represent contributing areas to stream reaches. These catchment areas should make possible more complex watershed-based analyses that the contractor shall use to recommend cross-program benefits to use within EPA and with other Federal agencies. Examples of the types of geospatial analyses and queries to be investigated are the following:
 - 3.3.1 Using the TMDL layer as an active layer with queries [preparation of impaired waters and TMDL data from ATTAINS database potentially needed].
 - 3.3.2 Determining results from queries that can be displayed on a nationwide basis by integrating new query building techniques using SPAs and generating queries and reports on the numbers, types, names and locations of contaminant sources.
 - 3.3.3 Integrating layers for inundation areas, floodplains and coastal counties for use in emergency response actions using queries [Designing queries for coastal counties or "SLOSH" (sea level rise and flooding purposes) displays, and FEMA flood plain data (Q3 version)].
 - 3.3.4 Designing and enhancing reporting functions and printing query results directly from GIS viewers [e.g. printing and sharing of .pdf file of map results; downloading GIS files after query complete and saving project analysis].
 - 3.3.5 Integrating additional layers in the legend of the DWMA and current DWGP pilot into query tools.
 - 3.3.6 Using other data layers for drinking water, source water and UIC for designing geospatial analytical functions or GIS representations and queries. These layers to be considered for example are: climate change; aquifer exemption; sole source aquifer; hydraulic fracturing, and geologic sequestration.

Task 4: Technical Support

- 4.1 The contractor shall provide technical support to incorporate the selected functions and queries designed in Task 3 above into the DWGA and GeoPlatform, MyWATERS Mapper or NPDAT or other tools developed under this task order or as directed via written technical direction by the TOPO.
- 4.2 The contractor shall, as required at times, evaluate and provide technical support for specific GIS projects from OGWDW or outside the office, and provide recommendations on project objectives, data use and sources, and project initiation. The contractor support for projects to other EPA customers outside OGWDW shall be assigned dependent on the level of effort in the contract and as directed via written technical direction by the TOPO.

4.3 The contractor shall provide technical support to integrate data for collaborative projects across EPA offices. The contractor shall investigate and design new queries for the integration of data (e.g. OUST, OSWER, OWM) and other non- EPA agency data (e.g. Forest Service) into geospatial analytical capabilities to be used in the GeoPlatform, NextGen developments, SFDW or in ArcGIS desktop applications. The contractor shall also provide technical support in the use of geospatial analysis in the use of data from UIC, RCRA, Superfund, ICIS-NPDES, CAFO/AFO, CSO, TRI, TMDL (assessed and restored waters), and OUST data to determine risks to drinking water within source water areas as the LOE allows. The contractor shall design queries and geospatial analysis to highlight these risk factors and to target areas for protection of drinking water systems and facilities.

Task 5: Support Meetings and Training

- 5.1 The contractor shall, as directed via written technical direction by the TOPO, prepare for and attend a quarterly, 1 day progress and strategy meeting associated with the DWGA project tasks. The meeting shall be held at EPA Headquarters (HQ) offices in Washington DC. Other meetings shall be held via web/phone conferencing. The contractor shall also prepare briefing materials, information handouts, and presentations as needed for EPA on site contract monitoring meetings at the contractor's place of business and at EPA HQ.
- 5.2 The contractor shall work with and engage in communications with the Infrastructure Branch managers and staff, Esri representatives, RTP/NCC, OEI, the Office of Water Program Management Office (OW/PMO), and others as needed to meet the task order objectives as outlined in this task order. Any and all technical direction shall be given by the EPA TOPO or his alternate as required or as requested by the contractor.
- 5.3 The contractor shall conduct training by webinar for EPA users two times per year that describes the data in the application, the use of queries, and the interpretation of results from using the DWGA.
- 5.4 The contractor shall conduct regular demonstrations (by webinar) of the work completed and the query functionality added to the DWGP as tasks are completed.
- 5.5 The contractor shall develop training materials to parallel the training above in 5.3 as directed via written technical direction by the TOPO.
- 5.6 The contractor shall develop a user guide to document the use of the DWGA.
- 5.7 The contractor shall present one (1) oral presentation at a conference as approved by the TOPO. For planning purposes only, assume the location will be in San Diego, CA in July 2013.

III. Quality Assurance (QA)

A. EPA has determined that an existing QAPP will be used for the performance of this work. The existing QAPP is included in this PWS as an attachment. The contractor shall adhere to the existing QAPP in performing the scope of requested services in this task order.

The contractor shall review the existing QAPP, and verify that it is still appropriate for use. If revisions are needed, the contractor shall include these in the Cost and Technical Proposals. The contractor shall notify the EPA TOPO at any time during the task order if changes to the QAPP

- are warranted. If revisions are necessary, the contractor shall submit a revised QAPP as directed by the TOPO.
- B. The contractor shall comply with the contract-level QA guidance in Section 2.6 Quality Assurance (QA) Requirements. The contractor shall comply with the QA guidance for GIS data (QA/G-5G) at: http://www.epa.gov/QUALITY/qs-docs/g5g-final.pdf.
- C. Specific QA and data standards sections applicable to this task order are: Sections 2.2.4.4; 2.2.8; 2.3.1.9; 2.3.4; 2.3.5.2; 2.5.3.5; 2.6.3.1.4; 3.4; 3.6; 4.0; 4.1; and 4.2.
- D. Progress on reviewing proposed existing data and new data sets shall be covered in the monthly progress reports. The monthly progress report shall indicate in a separate QA section, whether significant QA issues have been identified and how the contractor is resolving them.
- E. The contractor shall provide separate spending breakdowns in the monthly progress reports for work pertaining to 1). Operation and Maintenance; 2). GeoPlatform enhancements; and 3) Data updates.
- F. This task order does not require a separate QAPP per Section 2.6.3 QUALITY ASSURANCE PROJECT PLAN (QAPP).

IV. Schedule of Benchmarks & Deliverables

Travel in this task order shall be limited to a kickoff meeting and occasional onsite meetings with EPA in Washington, DC per approval by the TOPO. The travel for any conference travel shall be approved by the TOPO before the travel is scheduled.

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If within 30 days prior to the end of the period of performance in a given period, the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

See attached Schedule of Benchmarks & Deliverables below:

SCHEDULE OF BENCHMARKS & DELIVERABLES

BASE PERIOI): Start date	through	March 30	. 2014

TASK	ACTIVITY/DELIVERABLE	SCHEDULE		
1	Kickoff Meeting	Within 10 business days of Task Order Award.		
		Draft within 5 business days		
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO		
	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the		
1	Otherwise, the TOPO will request the Contractor to initiate work on an addendum to the QAPP.	proposed work. If it is determined that it is not, then an addendum will be written.		
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable		
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.		
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.		
2	Contractor will begin to evaluate the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	July 15, 2013		
2	Contractor will continue to update all major GIS layers and priority datasets in DWGP as outlined in Attachment 1.	As outlined in technical direction from the TOPO.		
2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	As outlined in technical direction from the TOPO.		

3	The contractor shall perform all necessary steps to convert and migrate the DWMA application to the EPA GeoPlatform.	As outlined in technical direction from the TOPO. This task will depend on the previous work accomplished and the conversion/migration plan as referenced in Section 3.1.
3	Contractor investigates the potential geospatial functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will evaluate new geospatial functions and queries proposed by EPA and the TOPO and determine their possible implementation.	July 15, 2013
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	August 15, 2013
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.
5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period

5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
OPTION PE	ERIOD ONE: 12 MONTHS	
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
1	Monthly Conference Calls and Meeting Minutes	Draft within 5 business days Final within 5 business days after receipt of comments from the TOPO
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall complete the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	May 15, 2014
2	Contractor shall complete the update of all major GIS layers and priority datasets in DWGP as outlined in Attachment 1 and begin the update of the remaining datasets listed in Attachment 1.	Within 90 days of Technical Direction from TOPO.

2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	June 15, 2014
3	Contractor will evaluate and implement additional queries in the DWGP.	Within 90 days of Technical Direction from TOPO.
3	As outlined in technical direction from the TOPO. Contractor enhances the potential functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	As outlined in technical direction from the TOPO.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
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OPTION PE	RIOD TWO: 12 MONTHS	
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
		Draft within 5 business days
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO
1	For <u>each</u> task, the TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall update the SDWIS/FED drinking water dataset from a download that is provided from EPA.	Within 90 days of Technical Direction from TOPO.

2	Contractor shall investigate the incorporation of other GIS layers and priority datasets in the GeoPlatform into the DWGP.	As outlined in technical direction from the TOPO.		
2	Contractor will update additional datasets in DWGP as outlined by TOPO.	As outlined in technical direction from the TOPO.		
3	Contractor will evaluate and implement additional queries in the DWGP.	As outlined in technical direction from the TOPO.		
3	As outlined in technical direction from the TOPO. Contractor designs functionalities between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.		
3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	See Task Order Section 3.3 for description of geospatial analyses and queries to be investigated in this option period.		
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.		
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.		
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.		

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
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When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

V. Attachments

- A. Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, pages 25.
- B. Quality Assurance Project Plan (QAPP) Task Order 020 Drinking Water Mapping Application (DWMA) Support Prepared by Environmental Health and Economics Division RTI International, Research Triangle Park, NC 27709 EPA Contract Number EP-C-08-003, 31 March 2010 (used in 2011 and 2012 task orders).

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION: NO.	3. EFFECTIVE DATE	4 REC	UISITION/PURCHASE REQ. NO.	5 PROJECT NO. (If applicable)
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NAME OF OFFEROR OR CONTRACTOR

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EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
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	Reason for Modification : Other Administrative				
	Action				
	Alternate COR/Project Officer changed to :				
	Renee Morris				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
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EP-C-12-054 Task Order 003

Recapitulation Of Funding To Date By Contract Period

FUNDING ACTION	ESTIMATED COST	FIXED FEE	COST PLUS FIXED FEE
BASE Period Initial Award Mod 1	(b)(4)	(b)(4)	\$44,000.00 -\$44,000.00 \$40,000.00
Total Funded Total Per Contract Balance Unfunded			\$40,000.00 \$49,715.00 \$9,715.00

G-1 LOCAL CLAUSES EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Alternate Task Order Project Officer for this contract is as follows:

Alternate Task Order Project Officer

Renee Morris USEPA, OGWDW 1200 Pennsylvania Ave, NW Mail Code: 4606M

Washington DC 20460 Email: morris.renee@epa.gov

Phone: 202-564-8037

52.232-100 Limitation of Funds Notice

- (a) Pursuant to the Limitation of Funds clause, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 02/02/2014.
- (b) When the contract is fully funded as specified in the Estimated Cost and Fixed Fee Clause (EP 52.216-190), the Limitation of Cost clause shall become applicable.
- (c) Recapitulation of Funds See Recap

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NAME OF OFFEROR OR CONTRACTOR

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	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143-02				
	109 TW Alexander Drive				
	Durham NC 27711				
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1552.217-71 Option to extend the term of the contract-cost-type contract. (APR 1984)

The Government has the option to extend the term of this contract for 2 additional period(s). If more than 30 days remain in the contract period of performance, the Government, without prior written notification, may exercise this option by issuing a contract modification. To exercise this option within the last 30 days of the period of performance, the Government must provide to the Contractor written notification prior to that last 30-days of the period. This preliminary notification does not commit the Government to exercising the option. The Government's estimated level of effort is 455direct labor hours for the base, 440 for first option period, and 435 for the second option period. Use of an option will result in the following contract modifications:

(a) The "Period of Performance" clause will be amended to cover a base period and option periods:

Period	Start Date	End Date
Base Period	Award	03/31/2014
Option Period 1	04/01/2014	03/31/2015
Option Period 2	04/01/2015	03/31/2016

(b) Paragraph (a) of the "Level of Effort" clause will be amended to reflect a new and separate level of effort of:

Period	Level of Effort
Base Period	455
Option Period 1	440
Option Period 2	435

(c) The "Estimated Cost and Fixed Fee" clause will be amended to reflect increased estimated costs and fixed fee for each option period as follows:

Eivad Eag

Total CDEE

	Estilliated Cost	rixeu ree	Total CFFF
Base Period	(b)(4)	(b)(4)	\$49,715
Option Period 1			\$50,257
Option Period 2			\$51,010

Estimated Cost

(d) If the contract contains "not to exceed amounts" for elements of other direct costs (ODC), those amounts will be increased as follows: TBD

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1 CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO	3. EFFECTIVE DATE	. I4 REO	U!SITION/PURCHASE REQ. NO	5 PROJECT NO. (If applicable)
			W 13 00648	5 PROJECT NO. (If applicable)
0.03 6. ISSUED BY CODE	See Bicck 160		INISTERED BY (If other than Item 6)	CODE CROD
(FOR U.S. MAIL ONLY) US Environmental Protection 26 West Martin Enther King I Mail Code: NWD Cincinnati OH 45268	AL A	CPOI US I 26 T Mai	,	ion Agency
R T I International Attn: DEBORAH EDITION PO BOX 12194 (b)(4) RESEARCH TRIANGLE PARK NO 27		98. X 107	AMENDMENT OF SOLICITATION NO DATED (SEE 11EM 11) MODIFICATION OF CONTRACT/ORDE	R NO.
CODE (b)(A)	FACILITY CODE		7/22/2013	
(b)(4)	11. THIS ITEM ONLY APPLIES			
Items 8 and 15, and returning co- separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offe- to the solicitation and this amendment, and is received. 12. ACCOUNTING AND APPROPRIATION DATA (if received)	to the so icitation and amendment Of FERS PRIOR TO THE HOUR AI or already submitted, such change no diprior to the opening hour and date	numbers FAI ND DATE SPE may be made be specified.	CIFIED MAY RESULT IN REJECTION O ly telegram or letter, provided each telegra	10 BF RECEIVED AT FYOUR OFFER Miby Imior letter makes reference
See Schedule		Not Ind	idase:	\$9,715.00
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D OTHER (Specify type of modification	and authority)			
X 52.232-20 Limitation	r of Cost			
E. IMPORTANT: Contractor (x) is not.	is required to sign this docume	ent and return	cop es to the is:	suing office
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: (b)(4) Task Oder 9003 Drinking Water SeoFlatform A	oplication (DWGA)	Ligate :	84,380 of 13/14 funds	in the Base
Period to allow the Base Per \$14,100; and 2) to fully fun the prior deobligation - obl TOPO: Roger Anzzolin Max Exp MIST OF CHANGES: Reason for Modification : Fu Continued Except as provided herein, all terms and conditions of the 15A NAME AND TITLE OF SIGNER (Type or paint)	d the Base Period igation). The Lir iro Date: 03/27/20 nding Only Action	in the mitalon 018	amount of \$9,715 (the of Cost clause now a	e net effect of pplics. ntul force and effect
		Cou	rtney Stallworth	
15B CONTRACTOR/OFF FROR	15C DATE SIGNE		INITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)			(Signature of Contracting Officer)	OF LITTO.
NSN 7540-01-152-8070			U	STANDARD FORM 30 (REV. 10-83)

NSN 7540-01-152-8070 Previous edition unusable

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53 243

CONTINUATION SUEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE (OF.
CONTINUATION SHEET	EP-C-12-054/0003/003	2	3

NAME OF OFFEROR OR CONTRACTOR

R T I International

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	New Total Amount for this Version: \$49,715.00				
	Obligated Amount for this Modification: \$9,715.00				
	New Total Obligated Amount for this Award: \$49,715.00				
	Incremental Funded Amount changed: from \$40,000.00 to \$49,715.00				
	CHANGES FOR LINE ITEM NUMBER: 1-Base Period Obligated Amount for this modification: \$9,715.00 Incremental Funded Amount changed from \$40,000.00 to \$49,715.00				
	CHANGES FOR ACCOUNTING CODE: 13-14-B-40ES-201B53X26-25051340DWE049-001 Amount changed from \$40,000.00 to \$35,615.00				
	NEW ACCOUNTING CODE ADDED: Account code: 12-13-B-40ES-201B53X26-25051340DWE074-001 Beginning FiscalYear 12 Ending Fiscal Year 13 Fund (Appropriation) B Budget Organization 40ES Program (PRC) 201B53X26 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 1340DWE074-001 Amount: \$14,100.00 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive Durham NC 27711 FOB: Destination Period of Performance: 07/22/2013 to 03/31/2014 All other terms and conditions shall remain unchanged.				

EP-C-12-054 Task Order 003

Recapitulation Of Funding To Date By Contract Period

FUNDING ACTION	ESTIMATED COST	FIXED FEE	COST PLUS FIXED FEE
BASE Period Initial Award	(b)(4)	(b)(4)	\$44,000.00
Mod 1			-\$44,000.00
			\$40,000.00
Mod 2 Admin			
Mod 3			\$9,715.00
Total Funded			\$49,715.00
Total Per Contract			\$49,715.00
Balance Unfunded			\$0.00
			1

	AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				63400	PAGE OF PAGES		
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2. AMENDMENT/MODIFICATION N	IO.	3. EFFECTIVE DATE		UISITIÖN/PURCHASE REQ. NO.	5. PR	DJECT NO. (If a	ipplicable)	
CC4 6. ISSUED BY	0.000	See Block 16C		W-13-00903		7		
a. 1920ED BY	CODE	G500	/. ADN	fINISTERED BY (if other than item 6)	CODE	CPOD		
(FOR U.S. MATE ONLY			CPO.					
US Environmental Protection Agency				invironmental Protect.		_		
26 West Martin Duther King Drive				Wost Martin Duther Kir	ng Dri	ve		
Mail Code: NWD Cincinnati OH 45268	0		800 91 0	l Code: NWD sinnati CH 45268				
Diner, Maci On 45280	0		Calif	SIRMAUL OF 45268				
8 NAME AND ADDRESS OF CONTI	RACTOR (No , street	county, State and ZIP Code)	(x) 9A.	AMENDMENT OF SOLICITATION NO				
R T I International								
atin: DEBORAH ELLIS	ION.		98.	DATED (SEE ITEM 11)				
O BOX 12194								
b)(4)				MODIFICATION OF CONTRACT/ORDE	R NO.			
ESEARCH TRIANGLE P	MRK NC 27	7092_94	L F	C-12-054				
			200	03				
			108	B. DATED (SEE ITEM 13)				
(b)(4)		FACILITY CODE	0,	7/22/2013				
		11. THIS ITEM ONLY APPLIES	TO AMENDM	ENTS OF SOLICITATIONS				
		irth in Item 14. The nour and date sp				∐ is not extend		
				on or as amended, by one of the following	•			
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				CIFIED MAY RESULT IN REJECTION OF				
virtue of this amendment you design	re to change an offe	r already submitted, such change ma	ay be made b	y te'egram or letter, provided each telegra				
	•	i prior to the opening hour and date s	specified					
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STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

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 OF

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NAME OF OFFEROR OR CONTRACTOR

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ΓEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT	UNIT PRICE (E)	AMOUNT (F)
(12)		(0)	(ח)	(E)	(1)
	LIST OF CHANGES:				
	Reason for Modification : Other Administrative Action				
	ACCION				
	Obligated Amount for this Modification: \$3,948.00				
	Saliguesa imioanie lei dille neallicule o, s iete				
	New Total Obligated Amount for this Award:				
	\$53,663.00				
	Incremental Funded Amount changed: from				
	\$49,715.00 to \$53,663.00				
	711				
	Alternate COR/Project Officer changed to : Jade Freeman				
	rieeman				
	CHANGES FOR LINE ITEM NUMBER: 1-Base Period				
	Description changed from Base Period-Provide				
	services in accordance with attached Performance				
	Work Statement entitled, "Drinking Water				
	GeoPlatform Application (DWGA)" This task order				
	award is a result of RFP PR-OW-13-00188 (2013-017)				
	_ , , , , , , , , , , , , , , , , , , ,				
	Level of Effort: 487 hours				
	Total Amount changed				
	from \$49,715.00 to \$53,663.00				
	110.110 413,710.00 60 403,000.00				
	Obligated Amount for this modification: \$3,948.00				
	Incremental Funded Amount changed from \$49,715.00				
	to \$53,663.00				
	CHANGES FOR RELIVERY LOCATION CROS				
	CHANGES FOR DELIVERY LOCATION: CPOD				
	Amount changed from \$49,715.00 to \$53,663.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	13-14-B-40ES-201B53X26-25051340DWE078-001				
	Beginning FiscalYear 13				
	Ending Fiscal Year 14				
	Fund (Appropriation) B				
	Budget Organization 40ES				
	Program (PRC) 201B53X26				
	Budget (BOC) 2505				
	Job # (Site/Project) Cost Organization				
	DCN-LineID 1340DWE078-001				
	Amount: \$3,948.00				
	Alternate Task Order Project Officer (ATOPO):				
	Continued				

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 OF

 EP-C-12-054/0003/004
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 23

NAME OF OFFEROR OR CONTRACTOR

R T I International

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Jade Freeman				
	1200 Pennsylvania Ave., NW				
	OW/OGWDW				
	Washington, DC 20460				
	Phone: (202)564-1935				
	email: lee-freeman.jade@epa.gov				
	In consideration of the modification agreed to				
	herein as complete equitable adjustments for the				
	Contractor's proposal dated 09/25/2013, the				
	Contractor hereby releases the Government from				
	any and all liability under this contract for				
	further equitable adjustments attributable to				
	such facts or circumstances giving rise to the				
	Performance Work Statement changes included in				
	this modification.				
	Payment: RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143-02				
	109 TW Alexander Drive				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/22/2013 to 03/31/2014				
	All other terms and conditions shall remain				
	unchanged.				
			Ιİ		

EP-C-12-054 Task Order 003

Recapitulation Of Funding To Date By Contract Period

FUNDING ACTION	ESTIMATED COST FIXED FEE		COST PLUS FIXED FEE
BASE Period Initial Award Mod 1	(b)(4)	(b)(4)	\$44,000.00 -\$44,000.00 \$40,000.00
Mod 2 Admin Mod 3 Mod 4			\$9,715.00 \$3,948.00
Total Funded Total Per Contract Balance Unfunded			\$53,663.00 \$53,663.00 \$0.00

PERFORMANCE WORK STATEMENT TSAWP Multiple-Award Contracts TASK ORDER EP-12-C-054 0003

Drinking Water GeoPlatform Application (DWGA)

. Background

The Office of Ground Water and Drinking Water (OGWDW) is participating in the GeoPlatform work to support expanded geospatial activities, applications, and data for use throughout EPA. The GeoPlatform shall support the ability to conduct relevant geospatial analysis using common data, tools and methods. On May 15, 2012 the Deputy Administrator announced the availability of the EPA GeoPlatform, and stressed that it is EPA policy to ensure that geographic data and tools in the future be built on the GeoPlatform.

OGWDW conducted a pilot project in 2012-2013 to convert a number of the major geospatial functions of the Drinking Water Mapping Application (DWMA) to the Agency GeoPlatform. The DWMA is a GIS (Geographic Information System) application specifically developed for OGWDW in 2003 to meet the needs of GIS analysis for drinking water, source water and underground injection control (UIC) program areas. There are four current functions in the Drinking Water GeoPlatform pilot (DWGP) that were used to test the viability of the conversion. They are the following:

- 1. Public water supply density maps of surface water and groundwater sources of drinking water (by State and HUC12) from the EPA Safe Drinking Water Information System (SDWIS). States and HUC12s are categorized according to the number of surface or groundwater sources in this function. See view below.
- 2. Pollution risks to drinking water supplies in source protection areas.
- 3. Identification of wastewater facilities upstream of drinking water intakes, and
- 4. Public water supplies with SDWIS violations and the related pollution risks in source protection areas.

This task order shall complete the conversion of the existing DWMA geospatial functions, and augment and enhance the design of the geospatial functions, queries and analytical capabilities within the GeoPlatform server environment. The DWGP four functions have been tested successfully and OGWDW feels that the current GIS tool should go to production. The prototype and production mapping tool in the GeoPlatform will be called the Drinking Water GeoPlatform Application (DWGA).

The Office of Environmental Information (OEI) conducted user needs assessments across the agency during 2011 and 2012. OGWDW with OEI conducted a user needs assessment in the fall of 2011 to determine the geospatial (GIS) user needs within the drinking water office. Drinking water data was the top most requested dataset for inclusion into the GeoPlatform from these agency interviews.

I. Tasks

Task 1: Core Support and Maintenance

- 1.1 Prior to the beginning of work on this task, the TOPO shall schedule a kick off meeting with the contractor to discuss the tasks within this task order, the goals of the task order, any questions or concerns regarding the existing QAPP, and a review of the schedule of milestones and expectations.
- 1.2 At the kick off meeting at the beginning of the tasks, the agenda shall include an overview of the existing QAPP, and address any concerns from EPA's QAO or from the contractor. Issues raised will be acknowledged by EPA's QAO, and the contractor will be allowed to incur billable costs to address the issues or EPA will dismiss the concern. If the issue needs to be addressed, an addendum to the existing QAPP will be written.
- 1.3 EPA has determined that an existing QAPP will be used for the performance of this task order. See Section III for additional information.
- 1.4 The contractor shall develop, update and/or revise, as directed via written technical direction by the TOPO, the contractor and EPA/RTP security plan based on any new sensitive drinking water security plans or policies, and the classification of sensitive data to conform to the Office of Water (OW), Watershed Assessment's Tracking and Environmental ResultS (WATERS) database environment, EPA Envirofacts, EPA Office of Ground Water and Drinking Water (OGWDW), and Office of Environmental Information (OEI) geospatial data policy as provided by the TOPO. Copies of the security plan shall be provided to the TOPO, OGWDW Security Officer and the WATERS team leader as necessary. Upon direction from the TOPO, the contractor shall coordinate with entities in OEI and/or the Office of Water (OW) to consider an enhanced approach to handle the needed "security" for the DWGA use of the new EPA "portal" technology, Oracle Web Access Management "single sign-on" capabilities and electronic secure data access forms within OGWDW.
- 1.5 The contractor shall monitor the URL of the DWGA on the NCC/RTP Web site and notify the NCC staff and the TOPO if the DWGA site is inaccessible by users. The contractor shall also monitor and maintain the Web access for users of the contractor DWGA Web site during normal business hours. Any user or the EPA TOPO may notify the contractor that either Web site is not available.
- 1.6 The contractor shall coordinate with EPA NCC/RTP support staff in maintaining and updating the DWGA, and its use of the reach address database (RAD) as applicable. Updates to the DWGA are needed because changes occur regularly in the ArcGIS application software, GIS platforms, server locations, Oracle database facility, and the WATERS version control structure.
- 1.7 The contractor shall coordinate with EPA NCC/RTP support staff the conversion/migration of the Drinking Water GeoPlatform pilot/prototype to the production environment under the GeoPlatform ArcGIS Server environment. The contractor will maintain the DWMA until it is expired at the end of the conversion process from the current DWMA ArcIMSTM platform. No updates to the DWMA are needed because of this conversion that are to begin under this task order and continue through enhancements and augmented functionality during option periods.

1.8 The contractor shall monitor the deployment of the DWGA to the NCC/RTP production environment on the WATERS instance, test and confirm that all database information is transferred correctly to the new servers, and support the conversion to new RTP software and releases during the performance period. The contractor shall host a development server on the contractor website that follows all security requirements, and provides a location to test new application uses, and provide a backup to the DWGA application located at NCC/RTP. Support also shall cover needed non-trivial migrations or other support work on the deployed DWGA related to new versions of Esri or ORACLE middleware or other major changes implemented through OEI (in the IGD/ and Envirofacts systems) or in the OW WATERS system.

A DWMA development site shall no longer be needed under this task order.

Other OW/OEI investment priorities that are set through the OW Information Steering Committee (ISC) or the Geospatial Information Officer (GIO) shall require the contractor to provide technical assistance, materials, and support for any office-wide (OW) investment priorities related to the DWGA that involve the OEI GeoPlatform or Environmental Analyst work.

- 1.9 The contractor shall continue to update and augment the information including presentations, conference papers, and products on a contractor status review site, and display general information pertaining to the DWGA project effort. No information to be included at the site shall be considered sensitive information or data.
- 1.10 The contractor shall receive comments from individual EPA users having access to the DWGA, and shall track and report these suggestions and comments to the TOPO for action as necessary.
- 1.11 The contractor shall monitor and implement procedures as needed to track, modify and issue UserID and password credentials for DWGA users based on the OGWDW Drinking Water Security Policy.

Task 2: Basic Data Use

- 2.1 The contractor shall support existing data sets in DWGA, and monitor the application to assure that the data is used efficiently in the RTP production environment. Maintaining the current datasets shall allow the DWGA application to be accessed for continuing projects and analyses.
- 2.2 The contractor shall update all major GIS layers that are included in Attachment 1: Data Updates Required to Enhance the GIS Capabilities of the DWGP. Priority coverages and data for these updates are the SDWIS/Fed drinking water data and the layers based on this data (e.g. Source Protection Areas (SPAs); HUC12 layers used in MyWATERS Mapper, etc.). The version of SDWIS/Fed used for all updates shall be the latest complete quarter or its derivative as determined by EPA. The following datasets and data layers shall be updated.

- 2.2.1 A SDWIS geospatial dataset including all source facilities georeferenced to the most recent NHDPlus¹.
- 2.2.2 Reach code indexing for all SDWIS/Fed source facilities (surface water only).
- 2.2.3 Updating and re-calculating the source protection areas (SPAs) based on the existing and any new source facilities that are not included in the current SPA data layer (3rd Quarter 2010). The contractor shall use the NHDPlus (latest acceptable version) coverages to refine the SPAs as needed
- 2.2.4 Updating the drinking water density maps using the HUC12 watersheds based on NHDPlus (latest accepted version), preparing them for use in various formats or applications (e.g. MyWATERS Mapper, downloadable data sets, web services, etc.) and making them available for public distribution as determined by EPA.
- 2.2.5 Update all metadata connected to the data updates in subtasks 2.2.1 through 2.2.4.
- 2.2.6 Other data sets contained in the DWGP to be considered for update or refresh as funding allows are the following: (version date in parentheses)
 - 2.2.6.1 NPDES (Summer 2007)
 - 2.2.6.2 CSO (August 2004)
 - 2.2.6.3 CERCLA (July 2007)
 - 2.2.6.4 RCRA (July 2007)
 - 2.2.6.5 UIC ((1990's)
 - 2.2.6.6 UST (HIFLD HSIP Gold 2007 dataset of gas stations²)
 - 2.2.6.7 Dry Cleaners (ESRI ArcGIS 9.3 Business Analyst January 2008)
 - 2.2.6.8 AFO (HSIP 2007)
 - 2.2.6.9 SSA (January 2009)
 - 2.2.7 Karst (1984)
 - 2.2.7.1 DOD (December 2005)
 - 2.2.7.2 Tribal (3rd Quarter 2006)
 - 2.2.7.3 Ground Water Regions (1984)

¹ NHDPlus is an integrated suite of application-ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD), the National Elevation dataset (NED), and the Watershed Boundary Dataset (WBD). NHDPlus Version 1 NHDPlusV1) was released in 2006. NHDPlus Version 2 (NHDPlusV2) began its public debut in June 2012.

² HIFLD – Homeland Infrastructure Foundation-Level Database (HIFLD) Working Group is a coalition of federal, state, and local government organizations, and supporting private industry partners who are involved with geospatial issues related to Homeland Defense, Homeland Security, civil support or emergency preparedness and response. The HIFLD website is found at https://www.hifldwg.org. HIFLD produces the Homeland Security Infrastructure Program (HSIP) dataset called the HSIP Gold dataset. The HSIP Gold 2012 dataset contains 5 DVDs: DVD1: Infrastructure Data; DVD 2: Infrastructure Data(Cont.), National Flood, Hazard Layer; DVD 3: LandScanTM, LandScan USATM; DVD 4: Navteq®, Road Networks, Points of Interest; DVD 5: Navteq®, Geocoding Locators (ArcGIS 9.3 & ArcGIS 10.0)

- 2.2.7.4 Principal Aquifers ((October 2003)
- 2.2.7.5 Surficial Geology (1979)
- 2.2.7.6 FEMA Q3 flood plain maps (2003?)
- 2.2.7.7 NOAA Coastal Counties (Date not noted)
- 2.3 The contractor shall collect, evaluate and develop new datasets to be used to support drinking water, source water and underground injection program analyses. The contractor shall use its expertise to develop those datasets that are required, used or needed to support analyses under the GeoPlatform, the SDWIS/Fed Data Warehouse (SFDW), SDWIS/Fed Reporting Services (SFRS), Nutrient Reduction Framework, NPDAT, MyWATERS Mapper, Water Data Project, environmental justice projects, and other agency initiatives.

Task 3: DWGA Enhancements and Design

3.1 The contractor also shall complete the conversion/migration of the remaining queries and GIS functionality of the current OGWDW Drinking Water Mapping Application or DWMA Version 3.0 as referenced above in the Background section to the newer ArcGISTM for Server platform for use in the EPA GeoPlatform. The contractor shall perform all necessary steps to convert the DWMA application to the EPA GeoPlatform. The web site for the EPA GeoPlatform can be found at: http://intranet.epa.gov/gis/geoplatform.html. The conversion analysis conducted in 2012³ and completed in 2013 provided the options for the conversion of the DWMA functionality to the DWGP (attached). EPA has determined that the following option shall be used for the conversion.

Migrate all remaining DWMA functions to either the GeoPlatform tools, similar to how the HUC12 query currently is in the prototype or onto the GeoPlatform Server as a separate tool as an expansion of the current stand-alone DWGA prototype which contains the wastewater, risk and violation queries. The contractor shall be given access to the EPA GeoPlatform and the private group where the DWGA resides by the EPA TOPO.

The differentiation between "GeoPlatform tools" and "the GeoPlatform Server as a separate tool" in paragraph (1) above is as follows:

- a. GeoPlatform tools are being defined as map services that are available to the larger EPA GeoPlatform community
- b. A separate tool on the GeoPlatform Server is being defined as new functions/queries being added to the existing stand-alone separate

³ Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, Pages 25.

DWGA prototype tool (the tool containing sensitive data in the private group).

- 3.2 The contractor shall outline technical options to incorporate GIS functions and data used in the DWGA in the EPA GeoPlatform to the SDWIS/FED project including incorporating DWGA functions and queries into the design of the SDWIS/FED Standard Reporting Services [SFRS; APEX reports⁴] and Data Warehouse (SFDW). The contractor shall be kept informed by the TOPO in the OGWDW effort to move SDWIS/Fed to a new data system. The contractor shall be required to analyze the SFDW and SFRS and recommend options on the best methods to embed or integrate GIS functionality into or with the SFDW and SFRS. The DWGA tool shall be designed as an integral part of the GIS capabilities for using SDWIS data from the SFDW and SFRS, and displaying data reports and physical maps (map views) directly from the APEX reports using the GeoPlatform server environment.
- 3.3 The contractor shall design and develop new geospatial functions and queries determined by EPA that are directly related to the outlined tasks in 3.1 and 3.2 above. All work shall take advantage of the NHDPlus velocity and flow variables available for the catchments that are elevation-derived sets of polygons to represent contributing areas to stream reaches. These catchment areas should make possible more complex watershed-based analyses that the contractor shall use to recommend cross-program benefits to use within EPA and with other Federal agencies. Examples of the types of geospatial analyses and queries to be investigated are the following:
 - 3.3.1 Using the TMDL layer as an active layer with queries [preparation of impaired waters and TMDL data from ATTAINS database potentially needed].
 - 3.3.2 Determining results from queries that can be displayed on a nationwide basis by integrating new query building techniques using SPAs and generating queries and reports on the numbers, types, names and locations of contaminant sources.
 - 3.3.3 Integrating layers for inundation areas, floodplains and coastal counties for use in emergency response actions using queries [Designing queries for coastal counties or "SLOSH" (sea level rise and flooding purposes) displays, and FEMA flood plain data (Q3 version)].
 - 3.3.4 Designing and enhancing reporting functions and printing query results directly from GIS viewers [e.g. printing and sharing of .pdf file of map results; downloading GIS files after query complete and saving project analysis].
 - 3.3.5 Integrating additional layers in the legend of the DWMA and current DWGP pilot into query tools.
 - 3.3.6 Using other data layers for drinking water, source water and UIC for designing geospatial analytical functions or GIS representations and queries. These layers to be considered for example are: climate change; aquifer exemption; sole source aquifer; hydraulic fracturing, and geologic sequestration.

Task 4: Technical Support

⁴ Oracle Application Express (Oracle APEX) is a declarative, rapid web application development tool for the Oracle database that is being used by OGWDW to design and generate reporting services within the SDWIS/FED Data Warehouse.

- 4.1 The contractor shall provide technical support to incorporate the selected functions and queries designed in Task 3 above into the DWGA and GeoPlatform, MyWATERS Mapper or NPDAT or other tools developed under this task order or as directed via written technical direction by the TOPO.
- 4.2 The contractor shall, as required at times, evaluate and provide technical support for specific GIS projects from OGWDW or outside the office, and provide recommendations on project objectives, data use and sources, and project initiation. The contractor support for projects to other EPA customers outside OGWDW shall be assigned dependent on the level of effort in the contract and as directed via written technical direction by the TOPO.
- 4.3 The contractor shall provide technical support to integrate data for collaborative projects across EPA offices. The contractor shall investigate and design new queries for the integration of data (e.g. OUST, OSWER, OWM) and other non- EPA agency data (e.g. Forest Service) into geospatial analytical capabilities to be used in the GeoPlatform, NextGen developments, SFDW or in ArcGIS desktop applications. The contractor shall also provide technical support in the use of geospatial analysis in the use of data from UIC, RCRA, Superfund, ICIS-NPDES, CAFO/AFO, CSO, TRI, TMDL (assessed and restored waters), and OUST data to determine risks to drinking water within source water areas as the LOE allows. The contractor shall design queries and geospatial analysis to highlight these risk factors and to target areas for protection of drinking water systems and facilities.
- 4.4 The contractor shall provide technical support to transition the DWGA to the NCC/RTP production server, and work with OEI and other parties to enable the security of the drinking water data and GIS data layers. In addition, the contractor shall provide technical support to EPA on developing a web service that will allow users to download the GIS and data layers used in the DWGA query functions from the Agency GeoPlatform.

Task 5: Support Meetings and Training

- 5.1 The contractor shall, as directed via written technical direction by the TOPO, prepare for and attend a quarterly, 1 day progress and strategy meeting associated with the DWGA project tasks. The meeting shall be held at EPA Headquarters (HQ) offices in Washington DC. Other meetings shall be held via web/phone conferencing. The contractor shall also prepare briefing materials, information handouts, and presentations as needed for EPA on site contract monitoring meetings at the contractor's place of business and at EPA HQ.
- 5.2 The contractor shall work with and engage in communications with the Infrastructure Branch managers and staff, Esri representatives, RTP/NCC, OEI, the Office of Water Program Management Office (OW/PMO), and others as needed to meet the task order objectives as outlined in this task order. Any and all technical direction shall be given by the EPA TOPO or his alternate as required or as requested by the contractor.

- 5.3 The contractor shall conduct training by webinar for EPA users two times per year that describes the data in the application, the use of queries, and the interpretation of results from using the DWGA.
- 5.4 The contractor shall conduct regular demonstrations (by webinar) of the work completed and the query functionality added to the DWGP as tasks are completed.
- 5.5 The contractor shall develop training materials to parallel the training above in 5.3 as directed via written technical direction by the TOPO.
- 5.6 The contractor shall develop a user guide to document the use of the DWGA.
- 5.7 The contractor shall present one (1) oral presentation at a conference as approved by the TOPO. For planning purposes only, assume the location will be in San Diego, CA in July 2013.

II. Quality Assurance (QA)

- A. EPA has determined that an existing QAPP will be used for the performance of this work. The existing QAPP is included in this PWS as an attachment. The contractor shall adhere to the existing QAPP in performing the scope of requested services in this task order.
 - The contractor shall review the existing QAPP, and verify that it is still appropriate for use. If revisions are needed, the contractor shall include these in the Cost and Technical Proposals. The contractor shall notify the EPA TOPO at any time during the task order if changes to the QAPP are warranted. If revisions are necessary, the contractor shall submit a revised QAPP as directed by the TOPO.
- B. The contractor shall comply with the contract-level QA guidance in Section 2.6 Quality Assurance (QA) Requirements. The contractor shall comply with the QA guidance for GIS data (QA/G-5G) at: http://www.epa.gov/QUALITY/qs-docs/g5g-final.pdf.
- C. Specific QA and data standards sections applicable to this task order are: Sections 2.2.4.4; 2.2.8; 2.3.1.9; 2.3.4; 2.3.5.2; 2.5.3.5; 2.6.3.1.4; 3.4; 3.6; 4.0; 4.1; and 4.2.
- D. Progress on reviewing proposed existing data and new data sets shall be covered in the monthly progress reports. The monthly progress report shall indicate in a separate QA section, whether significant QA issues have been identified and how the contractor is resolving them.
- E. The contractor shall provide separate spending breakdowns in the monthly progress reports for work pertaining to 1). Operation and Maintenance; 2). GeoPlatform enhancements; and 3) Data updates.
- F. This task order does not require a separate QAPP per Section 2.6.3 QUALITY ASSURANCE PROJECT PLAN (QAPP).

. Schedule of Benchmarks & Deliverables

Travel in this task order shall be limited to a kickoff meeting and occasional onsite meetings with EPA in Washington, DC per approval by the TOPO. The travel for any conference travel shall be approved by the TOPO before the travel is scheduled.

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If within 30 days prior to the end of the period of performance in a given period, the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

See attached Schedule of Benchmarks & Deliverables below:

SCHEDULE OF BENCHMARKS & DELIVERABLES

BASE PERIOD:	Start date	through	March	30	2014

	ASE PERIOD: Start date through March 30, 2014					
TASK	ACTIVITY/DELIVERABLE	SCHEDULE				
1	Kickoff Meeting	Within 10 business days of Task Order Award.				
		Draft within 5 business days				
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO				
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on an addendum to the QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.				
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable				
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.				
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.				
2	Contractor will begin to evaluate the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	July 15, 2013				
2	Contractor will continue to update all major GIS layers and priority datasets in DWGP as outlined in Attachment 1.	As outlined in technical direction from the TOPO.				

2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	As outlined in technical direction from the TOPO.
3	The contractor shall perform all necessary steps to convert and migrate the DWMA application to the EPA GeoPlatform.	As outlined in technical direction from the TOPO. This task will depend on the previous work accomplished and the conversion/migration plan as referenced in Section 3.1.
3	Contractor investigates the potential geospatial functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will evaluate new geospatial functions and queries proposed by EPA and the TOPO and determine their possible implementation.	July 15, 2013
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	August 15, 2013
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
OPTION P	RIOD ONE: 12 MONTHS	
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
		Draft within 5 business days
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall complete the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	May 15, 2014

2	Contractor shall complete the update of all major GIS layers and priority datasets in DWGP as outlined in Attachment 1 and begin the update of the remaining datasets listed in Attachment 1.	Within 90 days of Technical Direction from TOPO.
2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	June 15, 2014
3	Contractor will evaluate and implement additional queries in the DWGP.	Within 90 days of Technical Direction from TOPO.
3	As outlined in technical direction from the TOPO. Contractor enhances the potential functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	As outlined in technical direction from the TOPO.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
	•	
OPTION PE	RIOD TWO: 12 MONTHS	
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
		Draft within 5 business days
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO
1	For <u>each</u> task, the TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall update the SDWIS/FED drinking water dataset from a download that is provided from EPA.	Within 90 days of Technical Direction from TOPO.

2	Contractor shall investigate the incorporation of other GIS layers and priority datasets in the GeoPlatform into the DWGP.	As outlined in technical direction from the TOPO.
2	Contractor will update additional datasets in DWGP as outlined by TOPO.	As outlined in technical direction from the TOPO.
3	Contractor will evaluate and implement additional queries in the DWGP.	As outlined in technical direction from the TOPO.
3	As outlined in technical direction from the TOPO. Contractor designs functionalities between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	See Task Order Section 3.3 for description of geospatial analyses and queries to be investigated in this option period.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
	END OF TABLE	END OF TABLE

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

V. Attachments

- A. Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, pages 25.
- B. Quality Assurance Project Plan (QAPP) Task Order 020 Drinking Water Mapping Application (DWMA) Support Prepared by Environmental Health and Economics Division RTI International, Research Triangle Park, NC 27709 EPA Contract Number EP-C-08-003, 31 March 2010 (used in 2011 and 2012 task orders).

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT					1 CONTRACT ID CODE		PAGE OF		
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6 ISSUED BY		CODE	CPGD		7. AD	MINISTERED BY (If other than Item 6)	CODE	CPOD	
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 OF

 EP-C-12-054/0003/005
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NAME OF OFFEROR OR CONTRACTOR

R T I International

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
(A)	TOPO: Jade Freeman Max Expire Date: 03/27/2018	(0)	(D)	(E)	(F)
	LIST OF CHANGES:				
	Reason for Modification : Funding and				
	Administrative Changes Action				
	Total Amount for this Modification: \$14,970.00				
	New Total Amount for this Version: \$68,633.00				
	Obligated Amount for this Modification: \$14,970.00				
	New Total Obligated Amount for this Award: \$68,633.00				
	TOCOR (Task Order Contracting Officer's				
	Representative) changed to : Jade Freeman				
	Alternate TOCOR (Alternate Task Order				
	Contracting Officer's Representative) changed to : Roger Howard				
	CHANGES FOR LINE ITEM NUMBER: 1-Base Period				
	Description changed to-				
	Provide services in accordance with attached				
	Performance Work Statement entitled, "Drinking				
	Water GeoPlatform Application (DWGA)" This task				
	order award is a result of RFP PR-OW-13-00188 (2013-017)				
	Level of Effort: 627 hours				
	Total Amount changed				
	from \$53,663.00 to \$68,633.00				
	Obligated Amount for this modification: \$14,970.00				
	Incremental Funded Amount changed from \$53,663.00 to \$68,633.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	13-14-B-40EK-201B53X30-25051440DWE006-001				
	Beginning FiscalYear 13 Ending Fiscal Year 14				
	Fund (Appropriation) B				
	Budget Organization 40EK				
	Program (PRC) 201B53X30				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Continued				

CONTINUATION SHEET		PAGE	OF
	EP-C-12-054/0003/005	3	20

NAME OF OFFEROR OR CONTRACTOR

R T I International

TEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT (D)		AMOUNT
(A)	(B)	(C)	(ח)	(E)	(F)
	Cost Organization				
	DCN-LineID 1440DWE006-001				
	Amount: \$14,970.00				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143-02				
	109 TW Alexander Drive				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/22/2013 to 03/31/2014				
	All other terms and conditions shall remain				
	unchanged.				
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EP-C-12-054 Task Order 003

Recapitulation Of Funding To Date By Contract Period

FUNDING ACTION	ESTIMATED COST	FIXED FEE	COST PLUS FIXED FEE
BASE Period Initial Award Mod 1	(b)(4)	(b)(4)	\$44,000.00 -\$44,000.00 \$40,000.00
Mod 2 Admin Mod 3 Mod 4 Mod 5			\$9,715.00 \$3,948.00 \$14,970.00
Total Funded Total Per Contract Balance Unfunded			\$68,633.00 \$68,633.00 \$0.00

PERFORMANCE WORK STATEMENT TSAWP Multiple-Award Contracts TASK ORDER EP-12-C-054 0003 Modification 5

Drinking Water GeoPlatform Application (DWGA)

I. Background

The Office of Ground Water and Drinking Water (OGWDW) is participating in the GeoPlatform work to support expanded geospatial activities, applications, and data for use throughout EPA. The GeoPlatform shall support the ability to conduct relevant geospatial analysis using common data, tools and methods. On May 15, 2012 the Deputy Administrator announced the availability of the EPA GeoPlatform, and stressed that it is EPA policy to ensure that geographic data and tools in the future be built on the GeoPlatform.

OGWDW conducted a pilot project in 2012-2013 to convert a number of the major geospatial functions of the Drinking Water Mapping Application (DWMA) to the Agency GeoPlatform. The DWMA is a GIS (Geographic Information System) application specifically developed for OGWDW in 2003 to meet the needs of GIS analysis for drinking water, source water and underground injection control (UIC) program areas. There are four current functions in the Drinking Water GeoPlatform pilot (DWGP) that were used to test the viability of the conversion. They are the following:

- 1. Public water supply density maps of surface water and groundwater sources of drinking water (by State and HUC12) from the EPA Safe Drinking Water Information System (SDWIS). States and HUC12s are categorized according to the number of surface or groundwater sources in this function. See view below.
- 2. Pollution risks to drinking water supplies in source protection areas.
- 3. Identification of wastewater facilities upstream of drinking water intakes
- 4. Public water supplies with SDWIS violations and the related pollution risks in source protection areas.

This task order shall complete the conversion of the existing DWMA geospatial functions, and augment and enhance the design of the geospatial functions, queries and analytical capabilities within the GeoPlatform server environment. The DWGP four functions have been tested successfully and OGWDW feels that the current GIS tool should go to production. The prototype and production mapping tool in the GeoPlatform will be called the Drinking Water GeoPlatform Application (DWGA).

The Office of Environmental Information (OEI) conducted user needs assessments across the agency during 2011 and 2012. OGWDW with OEI conducted a user needs assessment in the fall of

2011 to determine the geospatial (GIS) user needs within the drinking water office. Drinking water data was the top most requested dataset for inclusion into the GeoPlatform from these agency interviews.

II. Tasks

Task 1: Core Support and Maintenance

- 1.1 Prior to the beginning of work on this task, the TOPO shall schedule a kick off meeting with the contractor to discuss the tasks within this task order, the goals of the task order, any questions or concerns regarding the existing QAPP, and a review of the schedule of milestones and expectations.
- 1.2 At the kick off meeting at the beginning of the tasks, the agenda shall include an overview of the existing QAPP, and address any concerns from EPA's QAO or from the contractor. Issues raised will be acknowledged by EPA's QAO, and the contractor will be allowed to incur billable costs to address the issues or EPA will dismiss the concern. If the issue needs to be addressed, an addendum to the existing QAPP will be written.
- 1.3 EPA has determined that an existing QAPP will be used for the performance of this task order. See Section III for additional information.
- 1.4 The contractor shall develop, update and/or revise, as directed via written technical direction by the TOPO, the contractor and EPA/RTP security plan based on any new sensitive drinking water security plans or policies, and the classification of sensitive data to conform to the Office of Water (OW), Watershed Assessment's Tracking and Environmental ResultS (WATERS) database environment, EPA Envirofacts, EPA Office of Ground Water and Drinking Water (OGWDW), and Office of Environmental Information (OEI) geospatial data policy as provided by the TOPO. Copies of the security plan shall be provided to the TOPO, OGWDW Security Officer and the WATERS team leader as necessary. Upon direction from the TOPO, the contractor shall coordinate with entities in OEI and/or the Office of Water (OW) to consider an enhanced approach to handle the needed "security" for the DWGA use of the new EPA "portal" technology, Oracle Web Access Management "single sign-on" capabilities and electronic secure data access forms within OGWDW.
- 1.5 The contractor shall monitor the URL of the DWGA on the NCC/RTP Web site and notify the NCC staff and the TOPO if the DWGA site is inaccessible by users. The contractor shall also monitor and maintain the Web access for users of the contractor DWGA Web site during normal business hours. Any user or the EPA TOPO may notify the contractor that either Web site is not available.
- 1.6 The contractor shall coordinate with EPA NCC/RTP support staff in maintaining and updating the DWGA, and its use of the reach address database (RAD) as applicable. Updates to the DWGA are needed because changes occur regularly in the ArcGIS application software, GIS platforms, server locations, Oracle database facility, and the WATERS version control structure.
- 1.7 The contractor shall coordinate with EPA NCC/RTP support staff the conversion/migration

of the Drinking Water GeoPlatform pilot/prototype to the production environment under the GeoPlatform ArcGIS Server environment. The contractor will maintain the DWMA until it is expired at the end of the conversion process from the current DWMA ArcIMSTM platform. No updates to the DWMA are needed because of this conversion that are to begin under this task order and continue through enhancements and augmented functionality during option periods.

1.8 The contractor shall monitor the deployment of the DWGA to the NCC/RTP production environment on the WATERS instance, test and confirm that all database information is transferred correctly to the new servers, and support the conversion to new RTP software and releases during the performance period. The contractor shall host a development server on the contractor website that follows all security requirements, and provides a location to test new application uses, and provide a backup to the DWGA application located at NCC/RTP. Support also shall cover needed non-trivial migrations or other support work on the deployed DWGA related to new versions of Esri or ORACLE middleware or other major changes implemented through OEI (in the IGD/ and Envirofacts systems) or in the OW WATERS system.

A DWMA development site shall no longer be needed under this task order.

Other OW/OEI investment priorities that are set through the OW Information Steering Committee (ISC) or the Geospatial Information Officer (GIO) shall require the contractor to provide technical assistance, materials, and support for any office-wide (OW) investment priorities related to the DWGA that involve the OEI GeoPlatform or Environmental Analyst work.

- 1.9 The contractor shall continue to update and augment the information including presentations, conference papers, and products on a *contractor* status review site, and display general information pertaining to the DWGA project effort. No information to be included at the site shall be considered sensitive information or data.
- 1.10 The contractor shall receive comments from individual EPA users having access to the DWGA, and shall track and report these suggestions and comments to the TOPO for action as necessary.
- 1.11 The contractor shall monitor and implement procedures as needed to track, modify and issue UserID and password credentials for DWGA users based on the OGWDW Drinking Water Security Policy.

Task 2: Basic Data Use

- 2.1 The contractor shall support existing data sets in DWGA, and monitor the application to assure that the data is used efficiently in the RTP production environment. Maintaining the current datasets shall allow the DWGA application to be accessed for continuing projects and analyses.
- 2.2 The contractor shall update all major GIS layers that are included in Attachment 1: Data

Updates Required to Enhance the GIS Capabilities of the DWGP. Priority coverages and data for these updates are the SDWIS/Fed drinking water data and the layers based on this data (e.g. Source Protection Areas (SPAs); HUC12 layers used in MyWATERS Mapper, etc.). The version of SDWIS/Fed used for all updates shall be the latest complete quarter or its derivative as determined by EPA. The following datasets and data layers shall be updated.

- 2.2.1 A SDWIS geospatial dataset including all source facilities georeferenced to the most recent NHDPlus¹.
- 2.2.2 Reach code indexing for all SDWIS/Fed source facilities (surface water only).
- 2.2.3 Updating and re-calculating the source protection areas (SPAs) based on the existing and any new source facilities that are not included in the current SPA data layer (3rd Quarter 2010). The contractor shall use the NHDPlus (latest acceptable version) coverages to refine the SPAs as needed
- 2.2.4 Updating the drinking water density maps using the HUC12 watersheds based on NHDPlus (latest accepted version), preparing them for use in various formats or applications (e.g. MyWATERS Mapper, downloadable data sets, web services, etc.) and making them available for public distribution as determined by EPA.
- 2.2.5 Update all metadata connected to the data updates in subtasks 2.2.1 through 2.2.4.
- 2.2.6 Other data sets contained in the DWGP to be considered for update or refresh as funding allows are the following: (version date in parentheses)
 - 2.2.6.1 NPDES (Summer 2007)
 - 2.2.6.2 CSO (August 2004)
 - 2.2.6.3 CERCLA (July 2007)
 - 2.2.6.4 RCRA (July 2007)
 - 2.2.6.5 UIC ((1990's)

(ArcGIS 9.3 & ArcGIS 10.0)

- 2.2.6.6 UST (HIFLD HSIP Gold 2007 dataset of gas stations²)
- 2.2.6.7 Dry Cleaners (ESRI ArcGIS 9.3 Business Analyst January 2008)
- 2.2.6.8 AFO (HSIP 2007)
- 2.2.6.9 SSA (January 2009)
 - 2.2.7 Karst (1984)
- 2.2.7.1 DOD (December 2005)
- 2.2.7.2 Tribal (3rd Quarter 2006)
- 2.2.7.3 Ground Water Regions (1984)

¹ NHDPlus is an integrated suite of application-ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD), the National Elevation dataset (NED), and the Watershed Boundary Dataset (WBD). NHDPlus Version 1 NHDPlusV1) was released in 2006. NHDPlus Version 2 (NHDPlusV2) began its public debut in June 2012.

² HIFLD – Homeland Infrastructure Foundation-Level Database (HIFLD) Working Group is a coalition of federal, state, and local government organizations, and supporting private industry partners who are involved with geospatial issues related to Homeland Defense, Homeland Security, civil support or emergency preparedness and response. The HIFLD website is found at https://www.hifldwg.org. HIFLD produces the Homeland Security Infrastructure Program (HSIP) dataset called the HSIP Gold dataset. The HSIP Gold 2012 dataset contains 5 DVDs: DVD1: Infrastructure Data; DVD 2: Infrastructure Data(Cont.), National Flood, Hazard Layer; DVD 3: LandScanTM, LandScan USATM; DVD 4: Navteq®, Road Networks, Points of Interest; DVD 5: Navteq®, Geocoding Locators

- 2.2.7.4 Principal Aquifers ((October 2003)
- 2.2.7.5 Surficial Geology (1979)
- 2.2.7.6 FEMA Q3 flood plain maps (2003?)
- 2.2.7.7 NOAA Coastal Counties (Date not noted)
- 2.3 The contractor shall collect, evaluate and develop new datasets to be used to support drinking water, source water and underground injection program analyses. The contractor shall use its expertise to develop those datasets that are required, used or needed to support analyses under the GeoPlatform, the SDWIS/Fed Data Warehouse (SFDW), SDWIS/Fed Reporting Services (SFRS), Nutrient Reduction Framework, NPDAT, MyWATERS Mapper, Water Data Project, environmental justice projects, and other agency initiatives.

Task 3: DWGA Enhancements and Design

3.1 The contractor also shall complete the conversion/migration of the remaining queries and GIS functionality of the current OGWDW Drinking Water Mapping Application or DWMA Version 3.0 as referenced above in the Background section to the newer ArcGISTM for Server platform for use in the EPA GeoPlatform. The contractor shall perform all necessary steps to convert the DWMA application to the EPA GeoPlatform. The web site for the EPA GeoPlatform can be found at: http://intranet.epa.gov/gis/geoplatform.html. The conversion analysis conducted in 2012³ and completed in 2013 provided the options for the conversion of the DWMA functionality to the DWGP (attached). EPA has determined that the following option shall be used for the conversion.

Migrate all remaining DWMA functions to either the GeoPlatform tools, similar to how the HUC12 query currently is in the prototype or onto the GeoPlatform Server as a separate tool as an expansion of the current stand-alone DWGA prototype which contains the wastewater, risk and violation queries. The contractor shall be given access to the EPA GeoPlatform and the private group where the DWGA resides by the EPA TOPO.

The differentiation between "GeoPlatform tools" and "the GeoPlatform Server as a separate tool" in paragraph (1) above is as follows:

- a. GeoPlatform tools are being defined as map services that are available to the larger EPA GeoPlatform community
- b. A separate tool on the GeoPlatform Server is being defined as new functions/queries being added to the existing stand-alone separate DWGA prototype tool (the tool containing sensitive data in the private group).
- 3.2 The contractor shall outline technical options to incorporate GIS functions and data used

³ Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, Pages 25.

in the DWGA in the EPA GeoPlatform to the SDWIS/FED project including incorporating DWGA functions and queries into the design of the SDWIS/FED Standard Reporting Services [SFRS; APEX reports⁴] and Data Warehouse (SFDW). The contractor shall be kept informed by the TOPO in the OGWDW effort to move SDWIS/Fed to a new data system. The contractor shall be required to analyze the SFDW and SFRS and recommend options on the best methods to embed or integrate GIS functionality into or with the SFDW and SFRS. The DWGA tool shall be designed as an integral part of the GIS capabilities for using SDWIS data from the SFDW and SFRS, and displaying data reports and physical maps (map views) directly from the APEX reports using the GeoPlatform server environment.

- 3.3 The contractor shall design and develop new geospatial functions and queries determined by EPA that are directly related to the outlined tasks in 3.1 and 3.2 above. All work shall take advantage of the NHDPlus velocity and flow variables available for the catchments that are elevation-derived sets of polygons to represent contributing areas to stream reaches. These catchment areas should make possible more complex watershed-based analyses that the contractor shall use to recommend cross-program benefits to use within EPA and with other Federal agencies. Examples of the types of geospatial analyses and queries to be investigated are the following:
 - 3.3.1 Using the TMDL layer as an active layer with queries [preparation of impaired waters and TMDL data from ATTAINS database potentially needed].
 - 3.3.2 Determining results from queries that can be displayed on a nationwide basis by integrating new query building techniques using SPAs and generating queries and reports on the numbers, types, names and locations of contaminant sources.
 - 3.3.3 Integrating layers for inundation areas, floodplains and coastal counties for use in emergency response actions using queries [Designing queries for coastal counties or "SLOSH" (sea level rise and flooding purposes) displays, and FEMA flood plain data (Q3 version)].
 - 3.3.4 Designing and enhancing reporting functions and printing query results directly from GIS viewers [e.g. printing and sharing of .pdf file of map results; downloading GIS files after query complete and saving project analysis].
 - 3.3.6 Integrating additional layers in the legend of the DWMA and current DWGP pilot into query tools.
 - 3.3.6 Using other data layers for drinking water, source water and UIC for designing geospatial analytical functions or GIS representations and queries. These layers to be considered for example are: climate change; aquifer exemption; sole source

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⁴ Oracle Application Express (Oracle APEX) is a declarative, rapid web application development tool for the Oracle database that is being used by OGWDW to design and generate reporting services within the SDWIS/FED Data Warehouse.

- aquifer; hydraulic fracturing, and geologic sequestration.
- 3.3.7 Determining upstream pollution sources, land uses and land cover based on mean or high stream flows by user selecting any point on a stream reach and specifying a time of travel on the map. Use NHDPlus to determine the upstream distance on a variable scale as a tab function. Allow user to insert a distance at average velocity and flow. Provide an option to generate a map or a report which lists all the pollution sources within the source protection areas (SPA) selected.

Task 4: Technical Support

- 4.1 The contractor shall provide technical support to incorporate the selected functions and queries designed in Task 3 above into the DWGA and GeoPlatform, MyWATERS Mapper or NPDAT or other tools developed under this task order or as directed via written technical direction by the TOPO.
- 4.2 The contractor shall, as required at times, evaluate and provide technical support for specific GIS projects from OGWDW or outside the office, and provide recommendations on project objectives, data use and sources, and project initiation. The contractor support for projects to other EPA customers outside OGWDW shall be assigned dependent on the level of effort in the contract and as directed via written technical direction by the TOPO.
- 4.3 The contractor shall provide technical support to integrate data for collaborative projects across EPA offices. The contractor shall investigate and design new queries for the integration of data (e.g. OUST, OSWER, OWM) and other non- EPA agency data (e.g. Forest Service) into geospatial analytical capabilities to be used in the GeoPlatform, NextGen developments, SFDW or in ArcGIS desktop applications. The contractor shall also provide technical support in the use of geospatial analysis in the use of data from UIC, RCRA, Superfund, ICIS-NPDES, CAFO/AFO, CSO, TRI, TMDL (assessed and restored waters), and OUST data to determine risks to drinking water within source water areas as the LOE allows. The contractor shall design queries and geospatial analysis to highlight these risk factors and to target areas for protection of drinking water systems and facilities.
- 4.4 The contractor shall provide technical support to transition the DWGA to the NCC/RTP production server, and work with OEI and other parties to enable the security of the drinking water data and GIS data layers. In addition, the contractor shall provide technical support to EPA on developing a web service that will allow users to download the GIS and data layers used in the DWGA query functions from the Agency GeoPlatform.

Task 5: Support Meetings and Training

5.1 The contractor shall, as directed via written technical direction by the TOPO, prepare for and attend a quarterly, 1 day progress and strategy meeting associated with the DWGA project tasks. The meeting shall be held at EPA Headquarters (HQ) offices in Washington DC. Other meetings shall be held via web/phone conferencing. The contractor shall also prepare briefing

- materials, information handouts, and presentations as needed for EPA on site contract monitoring meetings at the contractor's place of business and at EPA HQ.
- 5.2 The contractor shall work with and engage in communications with the Infrastructure Branch managers and staff, Esri representatives, RTP/NCC, OEI, the Office of Water Program Management Office (OW/PMO), and others as needed to meet the task order objectives as outlined in this task order. Any and all technical direction shall be given by the EPA TOPO or his alternate as required or as requested by the contractor.
- 5.3 The contractor shall conduct training by webinar for EPA users two times per year that describes the data in the application, the use of queries, and the interpretation of results from using the DWGA.
- 5.4 The contractor shall conduct regular demonstrations (by webinar) of the work completed and the query functionality added to the DWGP as tasks are completed.
- 5.5 The contractor shall develop training materials to parallel the training above in 5.3 as directed via written technical direction by the TOPO.
- 5.6 The contractor shall develop a user guide to document the use of the DWGA.
- 5.7 The contractor shall present one (1) oral presentation at a conference as approved by the TOPO. For planning purposes only, assume the location will be in San Diego, CA in July 2013.

III. Quality Assurance (QA)

A. EPA has determined that an existing QAPP will be used for the performance of this work. The existing QAPP is included in this PWS as an attachment. The contractor shall adhere to the existing QAPP in performing the scope of requested services in this task order.

The contractor shall review the existing QAPP, and verify that it is still appropriate for use. If revisions are needed, the contractor shall include these in the Cost and Technical Proposals. The contractor shall notify the EPA TOPO at any time during the task order if changes to the QAPP are warranted. If revisions are necessary, the contractor shall submit a revised QAPP as directed by the TOPO.

- B. The contractor shall comply with the contract-level QA guidance in Section 2.6 Quality Assurance (QA) Requirements. The contractor shall comply with the QA guidance for GIS data (QA/G-5G) at: http://www.epa.gov/QUALITY/qs-docs/g5g-final.pdf.
- C. Specific QA and data standards sections applicable to this task order are: Sections 2.2.4.4; 2.2.8; 2.3.1.9; 2.3.4; 2.3.5.2; 2.5.3.5; 2.6.3.1.4; 3.4; 3.6; 4.0; 4.1; and 4.2.
- D. Progress on reviewing proposed existing data and new data sets shall be covered in the monthly progress reports. The monthly progress report shall indicate in a separate QA section, whether significant QA issues have been identified and how the contractor is resolving them.
- E. The contractor shall provide separate spending breakdowns in the monthly progress reports for work pertaining to 1). Operation and Maintenance; 2). GeoPlatform enhancements; and 3) Data updates.
- F. This task order does not require a separate QAPP per Section 2.6.3 QUALITY ASSURANCE PROJECT PLAN (QAPP).

IV. Schedule of Benchmarks & Deliverables

Travel in this task order shall be limited to a kickoff meeting and occasional onsite meetings with EPA in Washington, DC per approval by the TOPO. The travel for any conference travel shall be approved by the TOPO before the travel is scheduled.

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If within 30 days prior to the end of the period of performance in a given period, the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining

funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

See attached Schedule of Benchmarks & Deliverables below:

SCHEDULE OF BENCHMARKS & DELIVERABLES

TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
		Draft within 5 business days
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on an addendum to the QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor will begin to evaluate the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	July 15, 2013
2	Contractor will continue to update all major GIS layers and priority datasets in DWGP as outlined in Attachment 1.	As outlined in technical direction from the TOPO.
2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	As outlined in technical direction from the TOPO.
3	The contractor shall perform all necessary steps to convert and migrate the DWMA application to the EPA GeoPlatform.	As outlined in technical direction from the TOPO. This task will depend on the previous work accomplished and the conversion/migration plan as referenced in Section 3.1.
3	Contractor investigates the potential geospatial functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will evaluate new geospatial functions and queries proposed by EPA and the TOPO and determine their possible implementation.	July 15, 2013

1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1.	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Monthly Conference Calls and Meeting Minutes	Draft within 5 business days Final within 5 business days after receipt of comments from the TOPO
1	Kickoff Meeting	Within 10 business days of Task Order Award.
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
OPTION P	ERIOD ONE: 12 MONTHS	
	ı	
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	August 15, 2013
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1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall complete the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	May 15, 2014
2	Contractor shall complete the update of all major GIS layers and priority datasets in DWGP as outlined in Attachment 1 and begin the update of the remaining datasets listed in Attachment 1.	Within 90 days of Technical Direction from TOPO.
2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	June 15, 2014
3	Contractor will evaluate and implement additional queries in the DWGP.	Within 90 days of Technical Direction from TOPO.
3	As outlined in technical direction from the TOPO. Contractor enhances the potential functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	As outlined in technical direction from the TOPO.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
OPTION P	ERIOD TWO: 12 MONTHS	
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
		Draft within 5 business days
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO
1	For <u>each</u> task, the TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1,	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall update the SDWIS/FED drinking water dataset from a download that is provided from EPA.	Within 90 days of Technical Direction from TOPO.
2	Contractor shall investigate the incorporation of other GIS layers and priority datasets in the GeoPlatform into the DWGP.	As outlined in technical direction from the TOPO.
2	Contractor will update additional datasets in DWGP as outlined by TOPO.	As outlined in technical direction from the TOPO.
3	Contractor will evaluate and implement additional queries in the DWGP.	As outlined in technical direction from the TOPO.
3	As outlined in technical direction from the TOPO. Contractor designs functionalities between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.

3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	See Task Order Section 3.3 for description of geospatial analyses and queries to be investigated in this option period.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.
5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
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When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

V. Attachments

- A. Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, pages 25.
- B. Quality Assurance Project Plan (QAPP) Task Order 020 Drinking Water Mapping Application (DWMA) Support Prepared by Environmental Health and Economics Division RTI International, Research Triangle Park, NC 27709 EPA Contract Number EP-C-08-003, 31 March 2010 (used in 2011 and 2012 task orders).

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clause. TOPO: Ja LIST OF Reason f Period C 2015-03- Continue Except as pro	ade Freeman Max Exp CHANGES: For Modification : Of Performance End -31	ire Date: Exercise O Date chang of the document refe	03/27/2018 ption Period ed from 2014-	I -03-	on I in accordance with 31 to retofore changed, remains unchanged and in fu	II force and e	effect.
15B. CONTRA	CTOR/OFFEROR		15C. DATE SIGNED	Cou	rtney Stallworth		16C. DATE SIGNED
.55. 5011110	J. J. WOLLECON		J. D. I. L. GIONED	[, "]	ያ የሚያ እንደ ነገር እንደሚያውር ለመርፈር እና እና እና እና እና	LEGTRON:0	
3	(Signature of person authorized to sign)			-	J	SIGNATURA	03/21/2014

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED		
	EP-C-12-054/0003/006	2	4

NAME OF OFFEROR OR CONTRACTOR

R T I International

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT	UNIT PRICE (E)	AMOUNT (F)
4 7)	(5)	(0)	('D')	(=)	(1)
	New Total Amount for this Version: \$50,257.00				
	Obligated Amount for this Modification: \$45,000.00				
	CHANGES FOR LINE ITEM NUMBER: 2- Option Period I				
	Obligated Amount for this modification: \$45,000.00				
	Incremental Funded Amount changed from \$0.00 to				
	\$45,000.00				
	Exercised option				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	14-15-B-40ES-201B53X26-2505-LSMMGBBQ-1440DWE019-00				
	1 Beginning FiscalYear 14				
	Ending Fiscal Year 15				
	Fund (Appropriation) B				
	Budget Organization 40ES				
	Program (PRC) 201B53X26				
	Budget (BOC) 2505				
	Job # (Site/Project) LSMMGBBQ				
	Cost Organization				
	DCN-LineID 1440DWE019-001				
	Amount: \$45,000.00				
	Option Powind I Contino D. Clause F2 222 100				
	Option Period I Section B: Clause, 52.232-100, is revised as follows:				
	52.232-100 Limitation of Funds Notice				
	(a) Pursuant to the Limitation of Funds clause,				
	incremental funding in the amount of $(b)(4)$				
	is allotted to cover estimated cost. Funding in				
	the amount of $(b)(4)$ is provided to cover the				
	corresponding increment of fixed fee. The amount				
	allotted for costs is estimated to cover the				
	contractor's performance through 2/20/2015.				
	(b) When the contract is fully funded as				
	specified in the Estimated Cost and Fixed Fee Clause (EP 52.216-190), the Limitation of Cost				
	Clause shall become applicable.				
	(c) Recapitulation of Funds				
	See Recap				
	Caraldae Brondler and Brondler and Caraldae				
	Section B: Clause, EPA-B-16-102, is revised as follows:				
	EPA-B-16-102 ESTIMATED COST AND FIXED FEE				
	(a) The estimated cost of this contract is				
	(b)(4)				
	Continued				

CONTINUATION CHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
CONTINUATION SHEET	EP-C-12-054/0003/006	3	4

NAME OF OFFEROR OR CONTRACTOR

R T I International

EM NO.	SUPPLIES/SERVICES	QUANTITY			AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	(b) The fixed fee is (b)(4)				
	(c) The total estimated cost and fixed fee is				
	\$50,257.				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143-02 109 TW Alexander Drive				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/22/2013 to 03/31/2015				
	All other terms and conditions shall remain				
	unchanged.				
			ı		

EP-C-12-054 Task Order 003

Recapitulation Of Funding To Date By Contract Period Base Period 4/1/2013 - 3/31/2014

FUNDING ACTION	ESTIMATED COST	FIXED FEE	COST PLUS FIXED FEE
BASE Period	(b)(4)	(b)(4)	¢44,000,00
Initial Award		(3)(1)	\$44,000.00
Mod 1			-\$44,000.00
			\$40,000.00
Mod 2 Admin			
Mod 3			\$9,715.00
Mod 4			\$3,948.00
Mod 5			\$14,970.00
			•
Total Funded			\$68,633.00
Total Per Contract			\$68,633.00
Balance Unfunded	\$0.00	\$0.00	\$0.00
	4	*****	7
	Recapitulation Of F	unding To Date By Contract F	Period
	·	option Period I 4/1/2014 - 3/31/	2015
			COST PLUS
FUNDING ACTION	ESTIMATED COST	FIXED FEE	FIXED FEE
Mod 6	(b)(4)	(b)(4)	\$45,000.00
,	(D)(4)		7.10,200.00
Total Funded			\$45,000.00
Total Per Contract			\$50,257.00
Balance Unfunded			\$5,257.00
balance officialided			\$3,237.00

AMENDME	ENT OF SOLICITATION/MODIF	ICATION OF C	ONTRACT		1. CONTRACT ID CODE		PAGE OF	PAGES
2. AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PR(J DJECT NO	. (If applicable)
007		See Blo	ck 16C	PR-C	POD-14-00120			
6. ISSUED BY	COE			7. ADN	MINISTERED BY (If other than Item 6)	CODE	CPOD	
US Envi 26 West Mail Co	S. MAIL ONLY) ronmental Protectio Martin Luther King de: NWD ati OH 45268			26 Mai	D Environmental Protection West Martin Luther King L Code: NWD Cinnati OH 45268		ency	
8. NAME AND	ADDRESS OF CONTRACTOR (No., st	reet, county, State and	d ZIP Code)	(x) 9A.	AMENDMENT OF SOLICITATION NO.			
Attn: DE PO BOX 1 (b)(4)	nternational EBORAH ELLISON 12194 H TRIANGLE PARK NC 2	77092194		x 104 E E	DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDER NO -C-12-054 03 B. DATED (SEE ITEM 13)	Ο.		
CODE (h))(4)	FACILITY COI	DE .		7/22/2013			
(D)	/(7 /				ENTS OF SOLICITATIONS			
	13. THIS ITEM ONLY APPLIES TO A. THIS CHANGE ORDER IS ISSUE ORDER NO. IN ITEM 10A.	required) D MODIFICATION C	OF CONTRACTS/ORDER:	S. IT MO	DDIFIES THE CONTRACT/ORDER NO. AS DESEMBLES SET FORTH IN ITEM 14 ARE MADE IN THE MINISTRATIVE CHANGES (such as changes in OFFAR 43.103(b).	HE CON	NTRACT	14.
X	C. THIS SUPPLEMENTAL AGREEM D. OTHER (Specify type of modificat FAR 52.232-22 Limi	ion and authority)		UTHOR	TY OF:			
E. IMPORTAN		<u> </u>	to sign this document and	return	0 copies to the issuing	office.		
DUNS Nur Task Ode Drinking The purp fee) fro TOPO: Ja LIST OF Reason i	mber: (b)(4) er 0003 g Water GeoPlatform pose of this modific om the base period t ade Freeman Max Expi CHANGES: for Modification : F	Applicaticatication is to Option ire Date:	on (DWGA) to shift \$790 period I for 03/27/2018 ly Action	6.73 a no √asher		(b)(and effect.	rom
15B. CONTRA	ACTOR/OFFEROR		15C. DATE SIGNED	16 4	rtney Stallworth			C. DATE SIGNED
a				1.4	ለም እምን ነገር ተመመለመር ለመመለ እና መጠር ውጥ	LEGTRI MGNAT	_	6/18/2014
-	(Signature of person authorized to sign)			1	id.	and a series	ynt.	

CONTINUATION CHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED		
CONTINUATION SHEET	EP-C-12-054/0003/007	2	4

NAME OF OFFEROR OR CONTRACTOR

R T I International

TEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT	UNIT PRICE (E)	AMOUNT (F)
A)			(D)	(上)	(f)
	CHANGES FOR LINE ITEM NUMBER: 2- Option Period I Obligated Amount for this modification: \$796.73				
	Incremental Funded Amount changed from \$45,000.00				
	to \$45,796.73				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	13-14-B-40EK-201B53X30-2505-1440DWE006-001				
	Beginning FiscalYear 13				
	Ending Fiscal Year 14 Fund (Appropriation) B				
	Budget Organization 40EK				
	Program (PRC) 201B53X30				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1440DWE006-001				
	Amount: \$796.73				
	CHANGES FOR LINE ITEM NUMBER: 1- Base Period				
	Obligated Amount for this modification: -\$796.73				
	Incremental Funded Amount changed from \$68,633.00				
	to \$67,836.27				
	CHANGES FOR RELIGIBLY LOCATION OF OR				
	CHANGES FOR DELIVERY LOCATION: CPOD				
	Amount changed from \$49,715.00 to \$68,633.00				
	CHANGES FOR ACCOUNTING CODE:				
	13-14-B-40EK-201B53X30-2505-1440DWE006-001				
	Account code changed from				
	13-14-B-40EK-201B53X30-25051440DWE006-001 to				
	13-14-B-40EK-201B53X30-2505-1440DWE006-001				
	Amount changed from \$14,970.00 to \$14,173.27				
	Base Period Section B: Clause, 52.232-100, is				
	revised as follows: 52.232-100 Limitation of Funds clause,				
	(a) incremental funding in the amount of				
	(b)(4) is allotted to cover estimated cost.				
	Funding in the amount of $(b)(4)$ is provided to				
	cover the corresponding increment of fixed fee.				
	The amount allotted for costs is estimated to				
	cover the contractor's performance through				
	3/30/2014.				
	(b) When the contract is fully funded as				
	specified in the Estimated Cost and Fied Fee Clause (EP 52.216-190), the Limitation of Cost				
	Clause shall become applicable.				
	(c) Recapitulation of Funds				
	Continued				
			Ιİ		

CONTINUATION CHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF.
CONTINUATION SHEET	EP-C-12-054/0003/007	3	4

NAME OF OFFEROR OR CONTRACTOR

R T I International

EM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT (D)	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(n)	(E)	(F)
	See Recap				
	Option Period I Section B: Clause, 52.232-100, is				
	revised as follows:				
	52.232-100 Limitation of Funds clause,				
	(a) incremental funding in the amount of				
	(b)(4) is allotted to cover estimated cost.				
	Funding in the amount of $(b)(4)$ is provided to				
	cover the corresponding increment of fixed fee.				
	The amount allotted for costs is estimated to				
	cover the contractor's performance through				
	2/26/2015. (b) When the contract is fully funded as				
	specified in the Estimated Cost and Fied Fee				
	Clause (EP 52.216-190), the Limitation of Cost				
	Clause shall become applicable.				
	(c) Recapitulation of Funds				
	See Recap				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143-02				
	109 TW Alexander Drive Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/22/2013 to 03/31/2015				
	All other terms and conditions shall remain				
	unchanged.				
		1			

EP-C-12-054 Task Order 003

Recapitulation Of Funding To Date By Contract Period Base Period 4/1/2013 - 3/31/2014

			COST PLUS
FUNDING ACTION	ESTIMATED COST	FIXED FEE	FIXED FEE
BASE Period	(b)(4)	(b)(4)	
Initial Award	(2)(1)		\$44,000.00
Mod 1			-\$44,000.00
			\$40,000.00
Mod 2 Admin			
Mod 3			\$9,715.00
Mod 4			\$3,948.00
Mod 5			\$14,970.00
Mod 7			-\$796.73
Total Funded			\$67,836.27
Total Per Contract			\$68,633.00
Balance Unfunded			\$796.73
	(Funding To Date By Contract Pe	
	(Option Period I 4/1/2014 - 3/31/2	
			COST PLUS
FUNDING ACTION	ESTIMATED COST	FIXED FEE	FIXED FEE
Mod 6	(b)(4)	(b)(4)	\$45,000.00
Mod 7			\$796.73
Total Funded			\$45,796.73
Total Per Contract			\$50,257.00
Balance Unfunded			\$4,460.27

AMENDMENT OF SOLICITATION/MOD	IFICATION OF CON	ITRACT	1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DA	TE 4. RI		5. PROJECT NO. (If applicable)
008	06/25/201	4 PR-	-OW-14-00444	~ ~ ~
6. ISSUED BY	ODE CPOD		DMINISTERED BY (If other than Item 6)	CODE CPOD
(FOR U.S. MAIL ONLY) US Environmental Protecti 26 West Martin Luther Kin Mail Code: NWD Cincinnati OH 45268		26 Ma	OD Environmental Protec West Martin Luther K il Code: NWD ncinnati OH 45268	3 4
8. NAME AND ADDRESS OF CONTRACTOR (No.	, street, county, State and ZIP	Code) (x)	9A. AMENDMENT OF SOLICITATION NO.	
R T I International Attn: DEBORAH ELLISON PO BOX 12194 (b)(4) RESEARCH TRIANGLE PARK NC	,	x j	DB. DATED (SEE ITEM 11) 100. MODIFICATION OF CONTRACT/ORI 10003	
			10B. DATED (SEE ITEM 13)	
^{CODE} (b)(4)	FACILITY CODE		07/22/2013	
	11. THIS ITEM C	ONLY APPLIES TO AMEN	DMENTS OF SOLICITATIONS	
virtue of this amendment you desire to change a to the solicitation and this amendment, and is re 12. ACCOUNTING AND APPROPRIATION DATA See Schedule 13. THIS ITEM ONLY APPLIES	ceived prior to the opening (If required)	g hour and date specified. Net Ir	ncrease:	\$4,460.27
B. THE ABOVE NUMBERED CON appropriation date, etc.) SET F	TRACT/ORDER IS MODI ORTH IN ITEM 14, PURS	FIED TO REFLECT THE AUTHORI	NGES SET FORTH IN ITEM 14 ARE MAD ADMINISTRATIVE CHANGES (such as ch TY OF FAR 43.103(b).	
C. THIS SUPPLEMENTAL AGREE	MENT IS ENTERED INTO	O PURSUANT TO AUTHO	ORITY OF:	
D. OTHER (Specify type of modified	eation and authority)			
X FAR 52.232-20 Lim	itation of Co	st		
E. IMPORTANT: Contractor X is r	5C36 G2 Next 16 V/	gn this document and retu	rn 0 copies to the	issuing office
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: (b)(4) The purpose of this modification of the purpose of this modification of the purpose of this modification of the purpose of this modification of the purpose of the purp	ication is to in the amount tion Period I pire Date: 03	deobligate 1 of \$36,636.1 . This actio /27/2018	4/15 funds in the amo 5, for a net change o	ount of \$32,175.88 of \$4,460.27 of
CHANGES FOR LINE ITEM NUMI Obligated Amount for this Incremental Funded Amount Continued Except as provided herein, all terms and condition 15A. NAME AND TITLE OF SIGNER (Type or prin	modification changed from	\$45,796.73 t ced in Item 9A or 10A, as I		
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	150	C. DATE SIGNED 16	425 450	ELECTRONIC 16C. DATE SIGNED SIGNATURE 06/25/2014

CONTINUATION SUEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED		
CONTINUATION SHEET	EP-C-12-054/0003/008	2	3

NAME OF OFFEROR OR CONTRACTOR

R T I International

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
(A)	(D)	(0)	(D)	(E)	(E)
	CHANGES FOR ACCOUNTING CODE:				
	14-15-B-40ES-201B53X26-2505-LSMMGBBQ-1440DWE019-00				
	1				
	Amount changed from \$45,000.00 to \$12,824.12				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	13-14-B-40ES-201B53X26-2505-LSMMGBBQ-1440DWE052-00				
	Beginning FiscalYear 13				
	Ending Fiscal Year 14				
	Fund (Appropriation) B				
	Budget Organization 40ES				
	Program (PRC) 201B53X26				
	Budget (BOC) 2505				
	Job # (Site/Project) LSMMGBBQ				
	Cost Organization				
	DCN-LineID 1440DWE052-001				
	Amount: \$36,636.15				
	Delivery Location Code: CPOD				
	CPOD				
	US Environmental Protection Agency				
	26 West Martin Luther King Drive Mail Code: NWD				
	Cincinnati OH 45268 USA				
	Cincinnati on 43200 USA				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143-02				
	109 TW Alexander Drive				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/22/2013 to 03/31/2015				
	All other terms and conditions shall remain				
	unchanged.				

The following clause is incorporated by this modification.

B-1 LOCAL CLAUSES EPA-B-32-101 LIMITATION OF FUNDS NOTICE

Option Period I

- (a) Pursuant to the Limitation of Funds clause, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 3/31/15.
- (b) When the contract is fully funded as specified in the Estimated Cost and Fixed Fee Clause (EP 52.216-190), the Limitation of Cost clause shall become applicable.
- (c) Recapitulation of Funds

	Estimated Cost	Fixed Fee	Cost Plus Fixed Fee
Modification 6	(b)(4)	(b)(4)	\$45,000.00
Modification 7			\$796.73
Modification 8			\$4,460.27
Total Funded			\$50,257.00
Total Task Order			\$50,257.00
Balance Unfunded			\$0.00
			J

AMENDMENT OF SOLICITATION	ON/MODIFICATION OF CONTRACT	TOUR RACT @ CCUE	PAGE 16 PAGE		
2 AMENDMENT/Models of the AIT		A HELD SINONAURO HUR RESINO	5 PRO. 10 No. 10 No. 13		
000	#865 Block 160	PR-0W-14-00444	i i i i i i i i i i i i i i i i i i i		
	COUE CROS	- AUTON STEELS IN (It other have due to	as the constant		
FOR U.S. MAIL ONLY;	<u> </u>	CPGE CPGE			
US Environmental Pro		US Environmental Protect:	on Agency		
- 26 Wost Martin Luthe - Mail Code: NWD	r King Drive	36 West Martin Lather Kis	va Drive		
- Mari Code: NWU - Cincinnati CS 45768		Mail Code: NWO Cincinnat: OF 45268			
		V-11 (105) 553 (524) 21 (524) 4 (72) 32 (52)			
HINAME TO LIFESS OF OCT THE	T. R. No. otherst private, State and 729 Code!	(x) PALAMENAMENT UP TO A SECURITY (x)			
R T 1 International					
Attm: DEBORAH FALLISON	:	ēBlīdatschysee (Jewinn)			
NO BOX 12194	_				
(b)(4)		"CA MOD ROW" IN THE PUT PART IN ROBE M. SEW OF LIFE DA	₹ 40		
RESEARCH TRIADELS FAR	FOR ZT UFZ;04				
		00003 NEW DATEDYSEE TO 200			
5c0€ (b)(4)		i [c7/20/2013			
(O)(1)	1: THIS TEM ONLY APPRIES TO	D'AMENTMENTS OF SOCIATIONS			
The above numbered solutation is an	ended as set firsts in them 14. The hour and date spe-		Rended (is not extended		
Offers must acknowledge recorpt of the	s amondinant pact to the near and eats specified in th	ne solimistion or as amended, by one of the following m	rethods (a) By completing		
sems 8 and 15 and returning separate letter or selection which includes		ledging sone or of this pineridment on each copy of the moors - FAILURE, OF YOUR ACKNOW, EDGEMENT T			
THE PLACE DESIGNATED FOR THE	RECEIPT OF OFFICERS PRIOR TO THE HOUR AND	DATE SPECIFIED MAY RESIDEN IN REJECTION OF	YOUR OFFER TITBY		
to the soliotation and this amendment	intinge an offer diready submitted, such change may and is received prior to the opening hour and date spi	be made by telegram or letter, provided each telegram onlied	or eltermakes reference		
1. HE IN THE AND APPROPRIATE	A. CATA (If required) N.e.	rt Increase:	\$13,296.00		
Sca Schedule					
13. THIS ITEM ONLY	APPLIES TO MODIFICATION OF CONTRACTS/ORDS	RS. IT MODIFIES THE CONTRACT/ORDER NO. AS I	DESCRIBED IN ITEM 14.		
CHECKIONE : A THIS CHANGE CHOR	R.S.(SSUEC PURS: IANT TO /Secolar authority), TE	-É CHANGES SET FORTH IN ITEM 14 ARE MADE IN	The CONTRACT		
ORDER NO IN ITEM	TCA				
B. THE ADDVS NUMBER	SED CONTRACT/ORDER IS MODIF ED TO REFLEC	TITHE ADMINISTRATIVE CHANGES (such as change)	is in paying office		
97 919 4	E HOMEEMERT IS EN EMEL NTÓ PÜRSUART TO				
	Changes and FAR 50.032-00	limitation of Cost			
The Project of the State	Proceeds Money of authority)				
E. IMPORTANT: Contractor	(is set	indiretionii copies to the issu- ntiving solinitation/contract subject matter where fee	11 120 1024		
DUNS Number: (b)(4)	TO A CALOGRAPSO Character assume a constitution	in an y som americentage sougeer matter where rea	z De i		
The purpose of this m					
1.) Add paptasks to t	ask 3 is the Performance W:	ork Statement (PWS). Attau	hed copy of the		
AWS replaces the orig	inal in its entirety.				
		a rotal of \$13,896 as a res	ult of the PWS		
changes.					
3.) Coligates \$13,296	, to fully fund the Option	Pariod I changes.			
4.) Change the TOCOR	4.) Change the POCOR to Sherri Comprised.				
2080; Shorri Comerfiord Max Expire Date: 03/27/2018					
DIST OF GRANGES:					
Continued					
Except as provided herein, an terms and or the many entire T. T. T. T. C. S. S. F. F. T. C. S.		CA, as himitofole changed, remains unchanged and in 18A, 5AMF, CLOPTIZE OF CONTRACTING OFF			
Donna Cooper, Senio	ATTER TO THE STATE OF THE STATE		rocks (type or print)		
5 N		Neelle Mills			
ាក់ ស្រែកម្ម ស្រាក់ ការប្រើស្រីសំពីទី គឺ គឺ គឺ គឺ គឺ គឺ គឺ គឺ គឺ គឺ គឺ គឺ គឺ	the seff alones		fetc. A military		
Drow (caller	08/01/14	1919英心子查查	2 AAA		
A 300 % St. may 175 mer. NSN 7548-01-152-8070	D Argely	- Signafure of Corollar stug. Drivers	STANDARD FORM 30 (REV. 10 - 0)		

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CONTINUATION CUEET	REFERENCE NO. OF DOCUMENT BRING CONTINUED	PAGE	QF.
CONTINUATION SHEET	PREFERENCE NO. OF DOCUMENT BRING CONTINUED EPHCH 12-054700037009	2	1 19

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NO.	SUPPLES/SERVICES	20.40° 1°	1 1	W1 15 H 801	AMOUN
	(34)		-3)		(5)
	rall i fot V community a Supple en d'ann a rest		1 1		
	for week within deepe		ļ		
	TCCOR (Task Order Contracting Officer's		ļ [
	Representative) changed to: Sharri Comerford		1		
	CHANGES FOR LINE ITEM NUMBER: 2 (Option Period 1)			1	
	Total Amount changed from \$80,237,00 to \$63,853.00				
	Obligated Amount for tala modification: \$13,098,00				
	Instancental Funded Assumt changes from \$50,250.00		i I		
	to \$63,553.00				
	LCE changed from 440 to 500		3		
	VIII. V GAGGGGGGG				
	NEW ACCOUNTING DODE ACCED:				
	Account code:				
	13-14-B-40E3-201853X26-2523-LSKM3AAQ-14405WE052-00				
	1		1		
	Boginhing FiscalYear 13			i	
	Ending Fiscal Year 14				
	Fund (Appropriation) 8			!	
	Sudget Organization 40ES				
	Program (PAC) 701853826				
	Budget, (BOC) 1505				
- 1	Job + (Site'Project) LOMMGBDQ				
	Cost Organization DON-Line 17				
	Ambunt: \$18,296.30				
	Paymont:		li		
ľ	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center				
	Mail Drop D143 02				
	109 TW Alexander Lineve				
	Deviam NC 27411				
	FCB: Destination		'		
	Period of Performance: 07/20/2013 to 03/31/2015				
ł	in ronsideration of the modification agreed to				
	herein as complete equitable adjustments for the				
	Contractor's proposal dated July 3, 2014, the				
	Contractor hereby releases the Government from				
- 1	any and all leability under this contract for				
	forther equitable adjustments attributable to				
	such tacts or circumstances giving rise to the				
-	proposal.				
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The following clause is revised by this modification as follows for Option Period f:

B-1 LOCAL CLAUSES EPA-B-16-102 ESTIMATED COST AND FIXED FEE

(a) The estimated cost of this contract is (b)(4)

(b) The fixed fee is (b)(4)

(c) The total estimated cost and fixed fee is \$63,553.

The following clause is revised by this modification as follows for Option Period 1:

B-2 LOCAL CLAUSES EPA-B-32-101 LIMITATION OF FUNDS NOTICE

- (a) Pursuant to the Limitation of Funds clause, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 3/31/15.
- (b) When the contract is fully funded as specified in the Estimated Cost and Fixed Fee Clause (EP 52.216-190), the Limitation of Cost clause shall become applicable.
- (c) Recapitulation of Funcs:

	Estimated Cost	Fixed Fee	Cost Plus Fixed Fee
Modification 6	(b)(4)	(b)(4)	\$45,000.00
Modification 7	. , , ,		\$796.73
Modification 8			\$4,460.27
Modification 9			\$13,296,00
Total Funded			\$63,553.00
Total Task Order			\$63,553.00
Balance Unfunded	\$0.00	\$0.00	\$0.00

The following clause is revised by this modification as follows:

G-1 LOCAL CLAUSES EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

The Task Order-Level Contracting Officers Representatives (CORs) for this 'Fask Order is revised as follows:

Sherri Comerford USEPA Headquarters William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 4606M Washington, DC 20460 Email: Comerford sherri@ Epa.gov 202-564-4639

PERFORMANCE WORK STATEMENT TSAWP Multiple-Award Contracts TASK ORDER EP-12-C-054 0003

Drinking Water GeoPlatform Application (DWGA)

I. Background

The Office of Ground Water and Drinking Water (OGWDW) is participating in the GeoPlatform work to support expanded geospatial activities, applications, and data for use throughout EPA. The GeoPlatform shall support the ability to conduct relevant geospatial analysis using common data, tools and methods. On May 15, 2012 the Deputy Administrator announced the availability of the EPA GeoPlatform, and stressed that it is EPA policy to ensure that geographic data and tools in the future be built on the GeoPlatform.

OGWDW conducted a pilot project in 2012-2013 to convert a number of the major geospatial functions of the Drinking Water Mapping Application (DWMA) to the Agency GeoPlatform. The DWMA is a GIS (Geographic Information System) application specifically developed for OGWDW in 2003 to meet the needs of GIS analysis for drinking water, source water and underground injection control (UIC) program areas. There are four current functions in the Drinking Water GeoPlatform pilot (DWGP) that were used to test the viability of the conversion. They are the following:

- 1. Public water supply density maps of surface water and groundwater sources of drinking water (by State and HUC12) from the EPA Safe Drinking Water Information System (SDWIS). States and HUC12s are categorized according to the number of surface or groundwater sources in this function. See view below.
- 2. Pollution risks to drinking water supplies in source protection areas.
- 3. Identification of wastewater facilities upstream of drinking water intakes
- 4. Public water supplies with SDWIS violations and the related pollution risks in source protection areas.

This task order shall complete the conversion of the existing DWMA geospatial functions, and augment and enhance the design of the geospatial functions, queries and analytical capabilities within the GeoPlatform server environment. The DWGP four functions have been tested successfully and OGWDW feels that the current GIS tool should go to production. The prototype and production mapping tool in the GeoPlatform will be called the Drinking Water GeoPlatform Application (DWGA).

The Office of Environmental Information (OEI) conducted user needs assessments across the agency during 2011 and 2012. OGWDW with OEI conducted a user needs assessment in the fall of

2011 to determine the geospatial (GIS) user needs within the drinking water office. Drinking water data was the top most requested dataset for inclusion into the GeoPlatform from these agency interviews.

II. Tasks

Task 1: Core Support and Maintenance

- 1.1 Prior to the beginning of work on this task, the TOPO shall schedule a kick off meeting with the contractor to discuss the tasks within this task order, the goals of the task order, any questions or concerns regarding the existing QAPP, and a review of the schedule of milestones and expectations.
- 1.2 At the kick off meeting at the beginning of the tasks, the agenda shall include an overview of the existing QAPP, and address any concerns from EPA's QAO or from the contractor. Issues raised will be acknowledged by EPA's QAO, and the contractor will be allowed to incur billable costs to address the issues or EPA will dismiss the concern. If the issue needs to be addressed, an addendum to the existing QAPP will be written.
- 1.3 EPA has determined that an existing QAPP will be used for the performance of this task order. See Section III for additional information.
- 1.4 The contractor shall develop, update and/or revise, as directed via written technical direction by the TOPO, the contractor and EPA/RTP security plan based on any new sensitive drinking water security plans or policies, and the classification of sensitive data to conform to the Office of Water (OW), Watershed Assessment's Tracking and Environmental ResultS (WATERS) database environment, EPA Envirofacts, EPA Office of Ground Water and Drinking Water (OGWDW), and Office of Environmental Information (OEI) geospatial data policy as provided by the TOPO. Copies of the security plan shall be provided to the TOPO, OGWDW Security Officer and the WATERS team leader as necessary. Upon direction from the TOPO, the contractor shall coordinate with entities in OEI and/or the Office of Water (OW) to consider an enhanced approach to handle the needed "security" for the DWGA use of the new EPA "portal" technology, Oracle Web Access Management "single sign-on" capabilities and electronic secure data access forms within OGWDW.
- 1.5 The contractor shall monitor the URL of the DWGA on the NCC/RTP Web site and notify the NCC staff and the TOPO if the DWGA site is inaccessible by users. The contractor shall also monitor and maintain the Web access for users of the contractor DWGA Web site during normal business hours. Any user or the EPA TOPO may notify the contractor that either Web site is not available.
- 1.6 The contractor shall coordinate with EPA NCC/RTP support staff in maintaining and updating the DWGA, and its use of the reach address database (RAD) as applicable. Updates to the DWGA are needed because changes occur regularly in the ArcGIS application software, GIS platforms, server locations, Oracle database facility, and the WATERS version control structure.
- 1.7 The contractor shall coordinate with EPA NCC/RTP support staff the conversion/migration

of the Drinking Water GeoPlatform pilot/prototype to the production environment under the GeoPlatform ArcGIS Server environment. The contractor will maintain the DWMA until it is expired at the end of the conversion process from the current DWMA ArcIMSTM platform. No updates to the DWMA are needed because of this conversion that are to begin under this task order and continue through enhancements and augmented functionality during option periods.

1.8 The contractor shall monitor the deployment of the DWGA to the NCC/RTP production environment on the WATERS instance, test and confirm that all database information is transferred correctly to the new servers, and support the conversion to new RTP software and releases during the performance period. The contractor shall host a development server on the contractor website that follows all security requirements, and provides a location to test new application uses, and provide a backup to the DWGA application located at NCC/RTP. Support also shall cover needed non-trivial migrations or other support work on the deployed DWGA related to new versions of Esri or ORACLE middleware or other major changes implemented through OEI (in the IGD/ and Envirofacts systems) or in the OW WATERS system.

A DWMA development site shall no longer be needed under this task order.

Other OW/OEI investment priorities that are set through the OW Information Steering Committee (ISC) or the Geospatial Information Officer (GIO) shall require the contractor to provide technical assistance, materials, and support for any office-wide (OW) investment priorities related to the DWGA that involve the OEI GeoPlatform or Environmental Analyst work.

- 1.9 The contractor shall continue to update and augment the information including presentations, conference papers, and products on a contractor status review site, and display general information pertaining to the DWGA project effort. No information to be included at the site shall be considered sensitive information or data.
- 1.10 The contractor shall receive comments from individual EPA users having access to the DWGA, and shall track and report these suggestions and comments to the TOPO for action as necessary.
- 1.11 The contractor shall monitor and implement procedures as needed to track, modify and issue UserID and password credentials for DWGA users based on the OGWDW Drinking Water Security Policy.

Task 2: Basic Data Use

- 2.1 The contractor shall support existing data sets in DWGA, and monitor the application to assure that the data is used efficiently in the RTP production environment. Maintaining the current datasets shall allow the DWGA application to be accessed for continuing projects and analyses.
- 2.2 The contractor shall update all major GIS layers that are included in Attachment 1: Data

Updates Required to Enhance the GIS Capabilities of the DWGP. Priority coverages and data for these updates are the SDWIS/Fed drinking water data and the layers based on this data (e.g. Source Protection Areas (SPAs); HUC12 layers used in MyWATERS Mapper, etc.). The version of SDWIS/Fed used for all updates shall be the latest complete quarter or its derivative as determined by EPA. The following datasets and data layers shall be updated.

- 2.2.1 A SDWIS geospatial dataset including all source facilities georeferenced to the most recent NHDPlus¹.
- 2.2.2 Reach code indexing for all SDWIS/Fed source facilities (surface water only).
- 2.2.3 Updating and re-calculating the source protection areas (SPAs) based on the existing and any new source facilities that are not included in the current SPA data layer (3rd Quarter 2010). The contractor shall use the NHDPlus (latest acceptable version) coverages to refine the SPAs as needed
- 2.2.4 Updating the drinking water density maps using the HUC12 watersheds based on NHDPlus (latest accepted version), preparing them for use in various formats or applications (e.g. MyWATERS Mapper, downloadable data sets, web services, etc.) and making them available for public distribution as determined by EPA.
- 2.2.5 Update all metadata connected to the data updates in subtasks 2.2.1 through 2.2.4.
- 2.2.6 Other data sets contained in the DWGP to be considered for update or refresh as funding allows are the following: (version date in parentheses)
 - 2.2.6.1 NPDES (Summer 2007)
 - 2.2.6.2 CSO (August 2004)
 - 2.2.6.3 CERCLA (July 2007)
 - 2.2.6.4 RCRA (July 2007)
 - 2.2.6.5 UIC ((1990's)
 - 2.2.6.6 UST (HIFLD HSIP Gold 2007 dataset of gas stations²)
 - 2.2.6.7 Dry Cleaners (ESRI ArcGIS 9.3 Business Analyst January 2008)
 - 2.2.6.8 AFO (HSIP 2007)
 - 2.2.6.9 SSA (January 2009)
 - 2.2.7 Karst (1984)
 - 2.2.7.1 DOD (December 2005)
 - 2.2.7.2 Tribal (3rd Quarter 2006)
 - 2.2.7.3 Ground Water Regions (1984)

¹ NHDPlus is an integrated suite of application-ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD), the National Elevation dataset (NED), and the Watershed Boundary Dataset (WBD). NHDPlus Version 1 NHDPlusV1) was released in 2006. NHDPlus Version 2 (NHDPlusV2) began its public debut in June 2012.

² HIFLD – Homeland Infrastructure Foundation-Level Database (HIFLD) Working Group is a coalition of federal, state, and local government organizations, and supporting private industry partners who are involved with geospatial issues related to Homeland Defense, Homeland Security, civil support or emergency preparedness and response. The HIFLD website is found at https://www.hifldwg.org. HIFLD produces the Homeland Security Infrastructure Program (HSIP) dataset called the HSIP Gold dataset. The HSIP Gold 2012 dataset contains 5 DVDs: DVD1: Infrastructure Data; DVD 2: Infrastructure Data(Cont.), National Flood, Hazard Layer; DVD 3: LandScanTM, LandScan USATM; DVD 4: Navteq®, Road Networks, Points of Interest; DVD 5: Navteq®, Geocoding Locators (ArcGIS 9.3 & ArcGIS 10.0)

- 2.2.7.4 Principal Aquifers ((October 2003)
- 2.2.7.5 Surficial Geology (1979)
- 2.2.7.6 FEMA Q3 flood plain maps (2003?)
- 2.2.7.7 NOAA Coastal Counties (Date not noted)
- 2.3 The contractor shall collect, evaluate and develop new datasets to be used to support drinking water, source water and underground injection program analyses. The contractor shall use its expertise to develop those datasets that are required, used or needed to support analyses under the GeoPlatform, the SDWIS/Fed Data Warehouse (SFDW), SDWIS/Fed Reporting Services (SFRS), Nutrient Reduction Framework, NPDAT, MyWATERS Mapper, Water Data Project, environmental justice projects, and other agency initiatives.

Task 3: DWGA Enhancements and Design

3.1 The contractor also shall complete the conversion/migration of the remaining queries and GIS functionality of the current OGWDW Drinking Water Mapping Application or DWMA Version 3.0 as referenced above in the Background section to the newer ArcGISTM for Server platform for use in the EPA GeoPlatform. The contractor shall perform all necessary steps to convert the DWMA application to the EPA GeoPlatform. The web site for the EPA GeoPlatform can be found at: http://intranet.epa.gov/gis/geoplatform.html. The conversion analysis conducted in 2012³ and completed in 2013 provided the options for the conversion of the DWMA functionality to the DWGP (attached). EPA has determined that the following option shall be used for the conversion.

Migrate all remaining DWMA functions to either the GeoPlatform tools, similar to how the HUC12 query currently is in the prototype or onto the GeoPlatform Server as a separate tool as an expansion of the current stand-alone DWGA prototype which contains the wastewater, risk and violation queries. The contractor shall be given access to the EPA GeoPlatform and the private group where the DWGA resides by the EPA TOPO.

The differentiation between "GeoPlatform tools" and "the GeoPlatform Server as a separate tool" in paragraph (1) above is as follows:

- a. GeoPlatform tools are being defined as map services that are available to the larger EPA GeoPlatform community
- b. A separate tool on the GeoPlatform Server is being defined as new functions/queries being added to the existing stand-alone separate DWGA prototype tool (the tool containing sensitive data in the private group).
- 3.2 The contractor shall outline technical options to incorporate GIS functions and data used

³ Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, Pages 25.

in the DWGA in the EPA GeoPlatform to the SDWIS/FED project including incorporating DWGA functions and queries into the design of the SDWIS/FED Standard Reporting Services [SFRS; APEX reports⁴] and Data Warehouse (SFDW). The contractor shall be kept informed by the TOPO in the OGWDW effort to move SDWIS/Fed to a new data system. The contractor shall be required to analyze the SFDW and SFRS and recommend options on the best methods to embed or integrate GIS functionality into or with the SFDW and SFRS. The DWGA tool shall be designed as an integral part of the GIS capabilities for using SDWIS data from the SFDW and SFRS, and displaying data reports and physical maps (map views) directly from the APEX reports using the GeoPlatform server environment.

- 3.3 The contractor shall design and develop new geospatial functions and queries determined by EPA that are directly related to the outlined tasks in 3.1 and 3.2 above. All work shall take advantage of the NHDPlus velocity and flow variables available for the catchments that are elevation-derived sets of polygons to represent contributing areas to stream reaches. These catchment areas should make possible more complex watershed-based analyses that the contractor shall use to recommend cross-program benefits to use within EPA and with other Federal agencies. Examples of the types of geospatial analyses and queries to be investigated are the following:
 - 3.3.1 Using the TMDL layer as an active layer with queries [preparation of impaired waters and TMDL data from ATTAINS database potentially needed].
 - 3.3.2 Determining results from queries that can be displayed on a nationwide basis by integrating new query building techniques using SPAs and generating queries and reports on the numbers, types, names and locations of contaminant sources.
 - 3.3.3 Integrating layers for inundation areas, floodplains and coastal counties for use in emergency response actions using queries [Designing queries for coastal counties or "SLOSH" (sea level rise and flooding purposes) displays, and FEMA flood plain data (Q3 version)].
 - 3.3.4 Designing and enhancing reporting functions and printing query results directly from GIS viewers [e.g. printing and sharing of .pdf file of map results; downloading GIS files after query complete and saving project analysis].
 - 3.3.6 Integrating additional layers in the legend of the DWMA and current DWGP pilot into query tools.
 - 3.3.6 Using other data layers for drinking water, source water and UIC for designing geospatial analytical functions or GIS representations and queries. These layers to be considered for example are: climate change; aquifer exemption; sole source

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⁴ Oracle Application Express (Oracle APEX) is a declarative, rapid web application development tool for the Oracle database that is being used by OGWDW to design and generate reporting services within the SDWIS/FED Data Warehouse.

- aquifer; hydraulic fracturing, and geologic sequestration.
- 3.3.7 Determining upstream pollution sources, land uses and land cover based on mean or high stream flows by user selecting any point on a stream reach and specifying a time of travel on the map. Use NHDPlus to determine the upstream distance on a variable scale as a tab function. Allow user to insert a distance at average velocity and flow. Provide an option to generate a map or a report which lists all the pollution sources within the source protection areas (SPA) selected.
- 3.3.8 Develop a web service to provide data and query results to other EPA applications.
- 3.3.9. Create database link between FRS database and SFDW database to enable automatic quarterly updates.

Task 4: Technical Support

- 4.1 The contractor shall provide technical support to incorporate the selected functions and queries designed in Task 3 above into the DWGA and GeoPlatform, MyWATERS Mapper or NPDAT or other tools developed under this task order or as directed via written technical direction by the TOPO.
- 4.2 The contractor shall, as required at times, evaluate and provide technical support for specific GIS projects from OGWDW or outside the office, and provide recommendations on project objectives, data use and sources, and project initiation. The contractor support for projects to other EPA customers outside OGWDW shall be assigned dependent on the level of effort in the contract and as directed via written technical direction by the TOPO.
- 4.3 The contractor shall provide technical support to integrate data for collaborative projects across EPA offices. The contractor shall investigate and design new queries for the integration of data (e.g. OUST, OSWER, OWM) and other non- EPA agency data (e.g. Forest Service) into geospatial analytical capabilities to be used in the GeoPlatform, NextGen developments, SFDW or in ArcGIS desktop applications. The contractor shall also provide technical support in the use of geospatial analysis in the use of data from UIC, RCRA, Superfund, ICIS-NPDES, CAFO/AFO, CSO, TRI, TMDL (assessed and restored waters), and OUST data to determine risks to drinking water within source water areas as the LOE allows. The contractor shall design queries and geospatial analysis to highlight these risk factors and to target areas for protection of drinking water systems and facilities.
- 4.4 The contractor shall provide technical support to transition the DWGA to the NCC/RTP production server, and work with OEI and other parties to enable the security of the drinking water data and GIS data layers. In addition, the contractor shall provide technical support to EPA on developing a web service that will allow users to download the GIS and data layers used in the DWGA query functions from the Agency GeoPlatform.

Task 5: Support Meetings and Training

- 5.1 The contractor shall, as directed via written technical direction by the TOPO, prepare for and attend a quarterly, 1 day progress and strategy meeting associated with the DWGA project tasks. The meeting shall be held at EPA Headquarters (HQ) offices in Washington DC. Other meetings shall be held via web/phone conferencing. The contractor shall also prepare briefing materials, information handouts, and presentations as needed for EPA on site contract monitoring meetings at the contractor's place of business and at EPA HQ.
- 5.2 The contractor shall work with and engage in communications with the Infrastructure Branch managers and staff, Esri representatives, RTP/NCC, OEI, the Office of Water Program Management Office (OW/PMO), and others as needed to meet the task order objectives as outlined in this task order. Any and all technical direction shall be given by the EPA TOPO or his alternate as required or as requested by the contractor.
- 5.3 The contractor shall conduct training by webinar for EPA users two times per year that describes the data in the application, the use of queries, and the interpretation of results from using the DWGA.
- 5.4 The contractor shall conduct regular demonstrations (by webinar) of the work completed and the query functionality added to the DWGP as tasks are completed.
- 5.5 The contractor shall develop training materials to parallel the training above in 5.3 as directed via written technical direction by the TOPO.
- 5.6 The contractor shall develop a user guide to document the use of the DWGA.
- 5.7 The contractor shall present one (1) oral presentation at a conference as approved by the TOPO. For planning purposes only, assume the location will be in San Diego, CA in July 2013.

III. Quality Assurance (QA)

A. EPA has determined that an existing QAPP will be used for the performance of this work. The existing QAPP is included in this PWS as an attachment. The contractor shall adhere to the existing QAPP in performing the scope of requested services in this task order.

The contractor shall review the existing QAPP, and verify that it is still appropriate for use. If revisions are needed, the contractor shall include these in the Cost and Technical Proposals. The contractor shall notify the EPA TOPO at any time during the task order if changes to the QAPP are warranted. If revisions are necessary, the contractor shall submit a revised QAPP as directed by the TOPO.

- B. The contractor shall comply with the contract-level QA guidance in Section 2.6 Quality Assurance (QA) Requirements. The contractor shall comply with the QA guidance for GIS data (QA/G-5G) at: http://www.epa.gov/QUALITY/qs-docs/g5g-final.pdf.
- C. Specific QA and data standards sections applicable to this task order are: Sections 2.2.4.4; 2.2.8; 2.3.1.9; 2.3.4; 2.3.5.2; 2.5.3.5; 2.6.3.1.4; 3.4; 3.6; 4.0; 4.1; and 4.2.
- D. Progress on reviewing proposed existing data and new data sets shall be covered in the monthly progress reports. The monthly progress report shall indicate in a separate QA section, whether significant QA issues have been identified and how the contractor is resolving them.
- E. The contractor shall provide separate spending breakdowns in the monthly progress reports for work pertaining to 1). Operation and Maintenance; 2). GeoPlatform enhancements; and 3) Data updates.
- F. This task order does not require a separate QAPP per Section 2.6.3 QUALITY ASSURANCE PROJECT PLAN (QAPP).

IV. Schedule of Benchmarks & Deliverables

Travel in this task order shall be limited to a kickoff meeting and occasional onsite meetings with EPA in Washington, DC per approval by the TOPO. The travel for any conference travel shall be approved by the TOPO before the travel is scheduled.

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If within 30 days prior to the end of the period of performance in a given period, the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to

prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

See attached Schedule of Benchmarks & Deliverables below:

SCHEDUI	SCHEDULE OF BENCHMARKS & DELIVERABLES				
BASE PEI	BASE PERIOD: Start date through March 30, 2014				
TASK	ACTIVITY/DELIVERABLE	SCHEDULE			
1	Kickoff Meeting	Within 10 business days of Task Order Award.			
		Draft within 5 business days			
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO			
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on an addendum to the QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.			
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable			
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.			
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.			
2	Contractor will begin to evaluate the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	July 15, 2013			
2	Contractor will continue to update all major GIS layers and priority datasets in DWGP as outlined in Attachment 1.	As outlined in technical direction from the TOPO.			
2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	As outlined in technical direction from the TOPO.			
3	The contractor shall perform all necessary steps to convert and migrate the DWMA application to the EPA GeoPlatform.	As outlined in technical direction from the TOPO. This task will depend on the previous work accomplished and the conversion/migration plan as referenced in Section 3.1.			
3	Contractor investigates the potential geospatial functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.			
3	Contractor will evaluate new geospatial functions and queries proposed by EPA and the TOPO and determine their possible implementation.	July 15, 2013			

1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	The TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Monthly Conference Calls and Meeting Minutes	Draft within 5 business days Final within 5 business days after receipt of comments from the TOPO
1	Kickoff Meeting	Within 10 business days of Task Order Award.
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
OPTION P	ERIOD ONE: 12 MONTHS	
	I	<u>Opnori Citou</u>
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	August 15, 2013

1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall complete the update of the current data in the DWMA and the transfer or placement of this data in the GeoPlatform.	May 15, 2014
2	Contractor shall complete the update of all major GIS layers and priority datasets in DWGP as outlined in Attachment 1 and begin the update of the remaining datasets listed in Attachment 1.	Within 90 days of Technical Direction from TOPO.
2	Contractor will update additional datasets in DWGP and recommend the inclusion of new datasets for use in the GeoPlatform.	June 15, 2014
3	Contractor will evaluate and implement additional queries in the DWGP.	Within 90 days of Technical Direction from TOPO.
3	As outlined in technical direction from the TOPO. Contractor enhances the potential functionality between the SDWIS/Fed Data Warehouse (SFDW), the SFRS, FRS and the DWGP.	As outlined in technical direction from the TOPO.
3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	As outlined in technical direction from the TOPO.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.

5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
OPTION P	ERIOD TWO: 12 MONTHS	
TASK	ACTIVITY/DELIVERABLE	SCHEDULE
1	Kickoff Meeting	Within 10 business days of Task Order Award.
		Draft within 5 business days
1	Monthly Conference Calls and Meeting Minutes	Final within 5 business days after receipt of comments from the TOPO
1	For <u>each</u> task, the TOPO's Quality Assurance Officer (QAO) will certify that the existing QAPP will cover the work. Otherwise, the TOPO will request the Contractor to initiate work on a draft QAPP.	10 business days after receipt of written technical direction from TOPO. It is inferred that the existing QAPP is sufficient for the proposed work. If it is determined that it is not, then an addendum will be written.
1	Draft QAPP for EPA review	10 business days after receipt of written technical direction from TOPO, if applicable
1	Final QAPP	10 business days after receipt of written technical direction from TOPO, if necessary.
1	Contractor will update as needed the security plan as it applies to the OW/OGWDW Security Policy (April 2005) for the use and access of sensitive drinking water data. NOTE: Some datasets and functions will only be available to the DWGP secure group.	If any changes are needed to security plan, the contractor shall provide to EPA the addendum to the QAPP within 10 days after receipt of written technical direction from the TOPO.
2	Contractor shall update the SDWIS/FED drinking water dataset from a download that is provided from EPA.	Within 90 days of Technical Direction from TOPO.
2	Contractor shall investigate the incorporation of other GIS layers and priority datasets in the GeoPlatform into the DWGP.	As outlined in technical direction from the TOPO.
2	Contractor will update additional datasets in DWGP as outlined by TOPO.	As outlined in technical direction from the TOPO.
3	Contractor will evaluate and implement additional queries in the DWGP.	As outlined in technical direction from the TOPO.
3	As outlined in technical direction from the TOPO. Contractor designs functionalities between the SDWIS/Fed Data Warehouse (SFDW), the SFRS and the DWGP.	As outlined in technical direction from the TOPO.

3	Contractor will design, create & enhance new geospatial functions and queries as specified by the TOPO.	See Task Order Section 3.3 for description of geospatial analyses and queries to be investigated in this option period.
4	Contractor shall provide technical support to incorporate selected functions and queries designed in Task 3 above into other GIS platforms such as MyWATERS Mapper and other agency tools.	As outlined in technical direction from the TOPO.
4	Contractor will provide technical support for specific GIS projects as directed by the TOPO. This support may include integrating geospatial datasets; conducting geospatial analysis; the design of queries & geospatial analyses within the DWGP & GIS desktop analysis; support to other EPA program offices and EPA regional offices; and other geospatial data and GIS support work as provided under this contract.	As outlined in technical direction from the TOPO.
4	The contractor shall provide technical support of office and agency wide investment priorities related to the DWGP that involve the Agency GeoPlatform and other geospatial initiatives.	As outlined in technical direction from the TOPO.
5	Contractor will prepare <u>draft</u> interim deliverables and work products and furnish to TOPO for review and comment, if requested. This package will fully describe the status of the Task Order at the end of the Option Period.	No Later Than 330 days after start of the Option Period
5	Contractor will prepare <u>FINAL</u> interim deliverables and work products and furnish to TOPO for review and comment.	Generally within 10 business days after receipt of written technical direction from the TOPO. NO LATER THAN end of the Option Period
	END OF TABLE	END OF TABLE

When the Task Order reaches 30 calendar days prior to the end of the Period of Performance in a given period, the contractor shall make a determination that the deliverables, milestones, benchmarks, and any outstanding technical direction from the TOPO, will be satisfactorily completed in the form requested in the PWS by the end of the Period of Performance and for the remaining funding that is available.

If the contractor determines one or more of the above-referenced items will not be able to be completed in the requested form within the period of performance and with the available funding, the contractor shall notify the TOPO and the CO immediately. Within 5 business days of said notification, the TOPO in coordination with the CO will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO all interim draft deliverables, interim work products, and any working files in an electronic format which is supported by EPA, for eventual continuation of the project after the end date of the Task Order.

V. Attachments

- A. Office of Ground Water and Drinking Water (OGWDW) GeoPlatform (DWGP) Conversion/Migration Plan, Prepared for Roger Anzzolin by RTI International, January 29, 2013, pages 25.
- B. Quality Assurance Project Plan (QAPP) Task Order 020 Drinking Water Mapping Application (DWMA) Support Prepared by Environmental Health and Economics Division RTI International, Research Triangle Park, NC 27709 EPA Contract Number EP-C-08-003, 31 March 2010 (used in 2011 and 2012 task orders).